

Materials & Equipment



IMPRINT

Publisher

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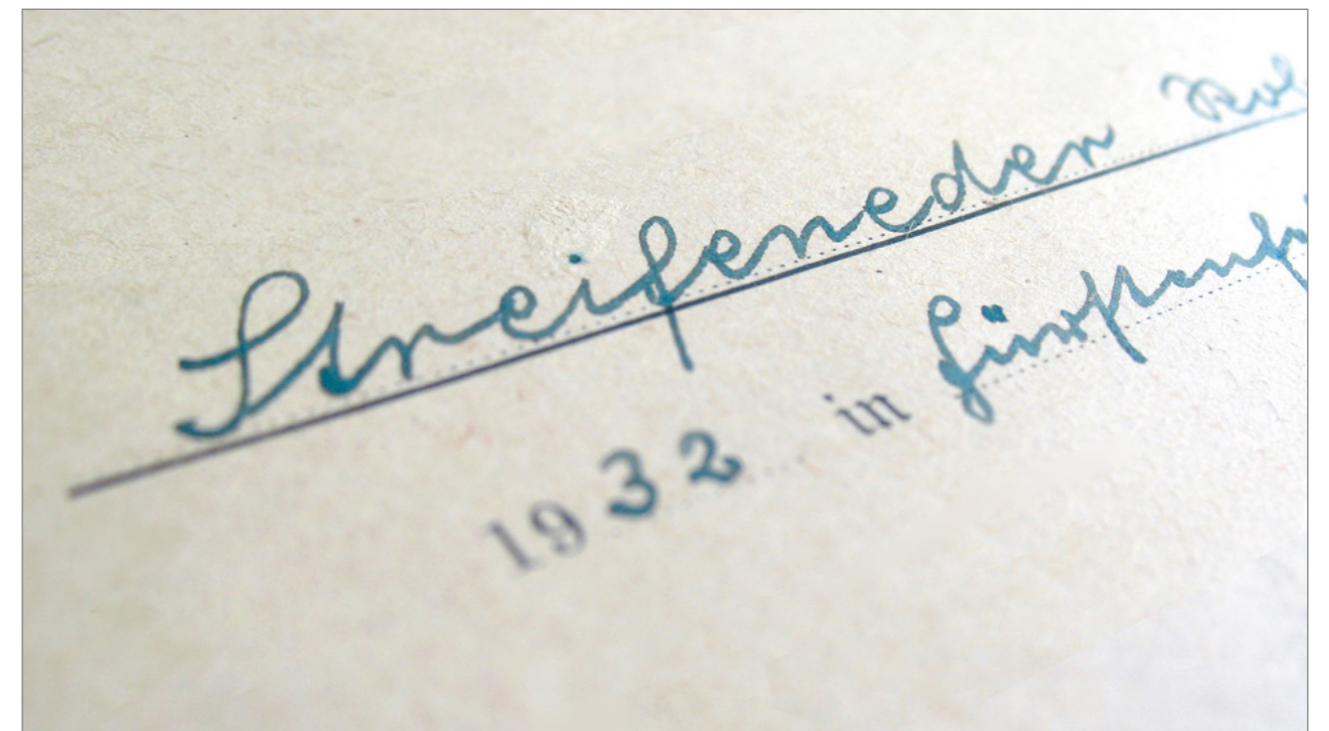
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History

- 1928 The Streifeneder firm is set up by Lilli and Friedrich Georg Streifeneder in Mannheim.
- 1929 The first patent is applied for.
- 1931 The property in Schöngesinger Straße in Fürstenfeldbruck is purchased.
- 1932 The first orthopaedic workshop is fitted out in Fürstenfeldbruck near Munich.
- 1945 Further orthopaedic workshops are set up to cater for war invalids.
- 1949 The orthopaedic workshop starts up at the Bad Tölz Hospital.
- 1953 The Munich site is opened. The wholesale business is expanded.
- 1968 The plastics, Streifylen and Streifylast, are launched along with the requisite heat sources.
- 1992 A production site is set up in Hungary to manufacture plastic products in small series.
- 1993 The production and distribution division expands further. Move to the new company premises in Emmering, just outside Munich.
- 1995 Export activities are stepped up.
- 1997 Takeover of Maschinen-Schmid, the world market leader in socket router machinery.
- 1998 The product range is extended by the prosthetics product division.
- 1999 Traditional in-house production is extended and the product spectrum expanded by modular components. "Everything from a single source" – with our very own department for workshop planning we can now help to realize our clients' wishes even better.
- 2001 The new site in Emmering is extended by further storage space to 6,000 qm.
- 2004 Establishment of distribution structure in China.
- 2007 Streifeneder ortho.production GmbH is set up as an independent subsidiary.
- 2009 Streifeneder ortho.production GmbH exports to more than 100 countries.
Streifeneder ortho.production GmbH wins the "red dot design award" for the knee joint KINEGEN.stream.
- 2010 A new building is purchased for Streifeneder ortho.production GmbH in Emmering.
- 2011 Opening of the branch Streifeneder India, located in Gurgaon/Haryana.
Establishment of distribution structures in Latin America.
Relocation of Streifeneder ortho.production to the new building with modern training and education-, logistics- and administration centre.
Foundation of Streifeneder Training Centre in Emmering.
- 2012 Grand opening of Streifeneder Training Centre, with focus on national and international markets.
Streifeneder ortho.production GmbH wins the "red dot design award" for the therapeutic shoe Pluto.
- 2013 The US-American distribution partner Euro International, located in Tampa/Florida, is integrated in the company as Streifeneder USA.
- 2014 Streifeneder group receives a new corporate design with new company logo.
- 2017 New partner and distributor BroadBay launches distribuion in United States and Canada.
- 2018 Development of prosthetic feet GO.smart and GO.free.
Florian Streifeneder joins the management as Member of the Executive Board.



Quality is our Claim

We are convinced that only constant technical innovation and development is the key to a steady improvement of products and optimal patient care. We apply high standards to be able to offer each of our clients exactly those high-quality products he requires. Each of our products is subject to a continuous quality planning, quality control, quality monitoring and quality improvement. In order to be able to satisfy even most individual customer requirements and also in order to close product-related gaps in the market, it is essential to have our own production series with large lot sizes, but to also offer products with very individual unit numbers.

Despite the rapid development of the export business within the last years and the opening up of new markets such as Brazil, we still value Germany as our location to do business. We are proud of the quality standard "Made in Germany" and even in times of a continuously increasing cost pressure and growing competition due to globalization, we still produce predominantly in Germany.



Quality management

More than ninety years of experience, as well as the certified quality management system we introduced in 1998 according to EN ISO 13485; ensure highest quality level.

This quality management system is applied to all business divisions. Especially our product development division makes sure that the high level of quality is not only maintained but steadily increased. Thus, we ensure that we always meet the raising demands of our clients in terms of product development, manufacturing and safety.



Increasing globalisation and changing international security and safety conditions have motivated the World Customs Organisation (WCO) to draft a „Framework of Standards to Secure and Facilitate Global Trade“ (SAFE) to establish a global framework for modern and effective risk management of

customs compliances. The aim is to guarantee the security and safety of a continual international supply chain from the product manufacturer to the end consumer. The concept of European Authorised Economic Operator is an EU Customs security programme that started in 2007 and recognises companies as reliable trade partners as they met the following common criteria: customs compliance, appropriate record-keeping, financial solvency and, where relevant, appropriate security and safety standards.

Streifeneder ortho.production GmbH, as a globally operating company, has met the challenge and is proud to announce that it has been granted Authorised Economic Operator (AEO-F) certification by German customs in January, 2013, which officially regards the company as a reliable trade partner. The certificate number is DE AEO-F 115235.

Because of this we can do even better at achieving our goal that you receive our products as quickly as possible. An important part of our delivery time concept and a valuable time saver. Part of our comprehensive safety concept is that our company is protected against entry by unauthorized persons and keep our shipments to you received the highest security and packaging standards. With this we contribute our share in building a secure supply chain.

Contacting us

Communication is a must in a working relationship. Your personal contact to our staff members in the internal sales department as well as our field service is the base of our successful collaboration.

It is our goal to react swiftly and efficiently to all of your wishes, to answer all of your questions and to keep all of the promises we make for our products. Please contact us!



Via our general office switchboard at +49 8141 6106-0 your call will be directed to the staff member in charge. Of course, you can also send your request by email to service@streifeneder.de.

Training Centre ortho.production Academy

In order to stay competitive and in order to meet the growing requirements of the patients, it is no longer enough to just use high quality orthopaedic products. Profound practical skills on the basis of current scientific research and findings creates optimal conditions to always react competently and confidently in daily practice. In order to convey valuable expertise as well as detailed knowledge to specialists in orthopaedic and orthopaedic shoe technology as well as physiotherapy and podiatry, we have originated the Training Centre ortho.production Academy in Emmering.

A spacious auditorium (AudiMax) with 160 seats and a fully equipped workshop with 15 work stations, a machine room as well as a patient fitting room and a plaster room on approx. 1.000 sqm offer more than optimal conditions for a qualified advanced and continuous education on the highest level. Modern tools such as multimedia equipment, a fully equipped gait analysis laboratory, course materials and teaching aids that meet the demands of our clients are also part of our standards.



Our meticulously elaborated seminar program comprehends more than 50 events per year centered around topics such as silicone processing, pre-preg processing, synthetic materials or gait analysis. With a flexible program planning on our part, we are also able to react to individual customer's wishes and to offer seminars about special subjects upon request. In order to guarantee an array of seminars that is as broad as possible we regularly invite high-carat external guest lecturers to our training centre Streifeneder ortho.training.

You can download our current seminar calendar with further information about all of our seminars from our website at www.streifeneder.com/training. Of course, we will also gladly send it to you by post or email. Please feel free to contact us at: training@streifeneder.de or by telephone +49 8141 6106-200. We are looking forward to hearing from you!



Plastics



Plastics

Plastics belong to the world of material, which is subdivided into raw materials, materials, and semifinished material or components for the manufacturing of various products and goods.

Besides the composite materials, which represent a combination of several materials, there are five main groups

- Metals (iron)
- Non-metals (graphite)
- Organic materials (wood)
- Inorganic non-metallic materials (glass)
- Semi-conductors (silicone)

Finished materials develop a number of important properties

- Physical properties (hardness, density)
- Technological properties (thermal conductivity, castability, workability, machinability)
- Mechanical properties (tensile strength, compression strength, plasticity)
- Chemical properties (resistance to corrosion, acid- and alkali-proofness)

Polymers are the basic components of any synthetic material. A synthetic material (polymer) is in essence nothing else but a type of chemical molecular chain (catenation or chain formation). One chain link is called a monomeric unit. If a minimum of three monomers are bundled, then this is called a polymer. During manufacturing (polymerization), individual (identical) monomers are uniting to form polymers. And this a million times.

Because of their technical properties such as ductility, different grades of hardness and elasticity, as well as the resistance against heat and chemical influences, synthetic materials are very attractive to orthopaedic technology. Synthetic materials on carbon basis (PE, PP, PVC, PETG etc.) are predominantly processed here.

The history of fabricating synthetic material goes back to the 17th century. Rubber was one of the first products.

Today, PE, PP and PS (polystyrenes) are the most frequently used synthetic materials.

Modern synthetic materials are subdivided into three main groups

Thermoplastic materials

This material is malleable under heat supply and can therefore be given any desired form by means of a forming process. After cooling down, the material maintains exactly this form. A great advantage consists in the fact that this process is reversible. Thermoplastics, especially PE and PP materials, constitute the majority of synthetic materials used today.

Thermosetting plastics

Cured TS materials are normally hard and brittle and can only be machined in subsequent manufacturing processes. One disadvantage of these synthetic materials is that heating thermosetting plastics does not result in malleability. You also have to keep in mind that these materials can only dissipate the heat delivered during the machining process to some extent or not at all. Therefore, the quality of machining can be influenced considerably during sawing, milling or grinding.

Elastomers

This type of synthetic material is only elastic or respectively pliable. That means that a product made from elastomers will deform if exposed to external forces. When released from these forces, the product (e. g. a rubber ring) will return to its original shape. Elastomers can generally be processed by chipless machining. This type of forming, however, is not permanent. Since these materials will not become malleable by supplying heat, elastomers are increasingly used for sanitary products.



Plastics

In the following you will find some important abbreviations for plastics which are also used in orthopaedics

- EVA** Ethylene vinyl acetate. A co-polymer with high thermal stability. Often used in orthopaedics as a cushioning material. Other industries use EVA to manufacture electric cables or shower curtains amongst other things.
- PE** Polyethylene. One of the best known thermoplastic synthetic materials. Very resistant to external impacts. The two most important types are HDPE – (high-density) PE with high density and therefore a solid PE, which is produced using low pressure manufacturing (e. g. beverage cases) and LDPE – (low density) PE with low density, which is a rather soft material as it is produced using high pressure processes (e. g. refuse sacks).
- PETG** Polyethylene terephthalate: synthetic material originating from the polyester family. Well known in daily life by the PET-bottle. With the additive glycol it is commonly used in the orthopaedic technology as trial socket material.
- PP** Polypropylene. Coming from the polyolefine family. Mostly hard and firm, but mechanically characterized by a very high stressability. Often industrially used for food packaging.
- PMMA** Polymethylmethacrylate. Thermoplastic material similar to glass and better known by the name of plexiglass or Altuglas. Often used in dentistry as a prosthetic material.
- PS** Polystyrole. A transparent plastic material which is hard but impact sensitive. It has good electrical characteristics and is often industrially used for housings of electric appliances. It is also suitable for mass productions such as CD covers or yoghurt goblets. Better known in its foamed state, it attained a great customer awareness by the name styrofoam.
- PVC** Polyvinylchloride. Normally a hard and brittle material. One distinguishes between plasticized polyvinyl chloride (PVC) which is used amongst others for artificial leather – and unplasticized polyvinyl chloride (UPVC) which is used e. g. to make window profiles.



Plastics (polymers) by Streifeneder to be used in orthopedic technology

Expanded plastics		
PU	PE	EVA
e. g. PPT	e. g. Varioform	e. g. Evazote
e. g. Orthoprene (Neoprene)	e. g. Colorfoam	e. g. Nora products such as Lunasoft and Lunalastik

Cast plastics
Acrylic glass
e. g. Streifycryl
e. g. Altuglas

Injection-molded and rolled plastics			
PE	PP	Polycondensate	EVA (in the form of LDPE)
e. g. Streifylen	e. g. Streifydur	e. g. PETG	e. g. Streifyflex
e. g. Streifycolor	e. g. Colordur	with added glycol to make the synthetic material sturdier and to expand its life cycle	
e. g. Steifylast			

Pressed plastics	
PE-HMW	PE-UHMW (ultra-high molecular weight)
e. g. RCH 500	e. g. RCH 1000

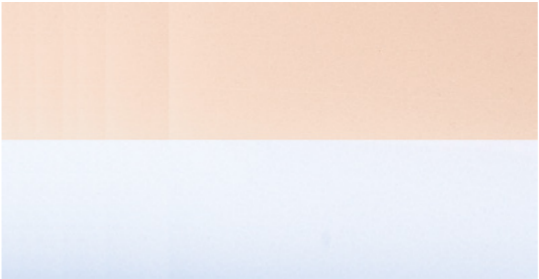
Low temperature PE
Polymere compound
e. g. Streifytherm

Deep-drawing materials – at a glance

Deep-drawing material term	Dimension	Item-No.	Application	Characteristics	Processing temperature	Additional technical information
PET (G) (Polyethylene terephthalate - glycol)	400 x 400 x 8, 10, 12, 15 and 20 mm	111P68/..	check-sockets, temporary sockets	crystal-clear, hard, thermoplastic mouldable, weldable, impact-resistant, non-shrinking	depending on material thickness 160 – 170 °C	Store PET(G) material dry; bondings with acrylic resin (sealing-resin hand laminate) & acrylic putty causes material brittleness and breakage! Preferably with stiff synthetic bandage for socket protection.
Streifytec Stiff (Polystyrene)	400 x 400 x 8, 10, 12 and 15 mm	111P170/..	check-sockets, temporary sockets	blue-translucent, hard, thermoplastic mouldable, impact-resistant, break-proof, non-shrinking	depending on material thickness approx. 160 – 170 °C	Observe temperature specification; insufficient distance to the infrared heating elements will lead to bubble development in the material.
Streifydur (Polypropylene)	400 x 400 x 8, 10, 12, 15 and 20 mm	111P63/..	container socket technology, CAT-CAM socket technology, self-supporting thermoplastic sockets	milky-white transparent, thermoplastic mouldable, very durable, high stiffness, resistant to body fluids, excellent thermo conductivity	depending on material thickness approx. 185 – 200 °C	Not for wet or damp plaster cast models; warm the plaster cast model; deep-draw in the evening and do not turn off the vacuum-device; slow cooling is important - rapid cooling causes considerable shrinkage!
Streifylast Plus, LDPE (Low Density Poly-ethylene - soft-PE)	400 x 400 x 10 and 12 mm	111P97/..	container socket technology, CAT-CAM socket technology, inner sockets, casting rings	milky-white transparent, thermoplastic, semi-elastic, resistant to body fluids, wax-like surface	depending on material thickness approx. 150 °C	Our Nylon Stockinette item-no. 95P2 is very well suitable for insulating the plaster cast model; alternatively, the backside of PE-Thermofabric item-no. 8T26/.. resp. 8T52 can be used.
Streifyflex (EVA, Ethylene-vinyl-acetate)	400 x 400 x 9, 12 and 14 mm	111P62/..	for very soft, flexible inner sockets in above knee prostheses, ISNY-technology	translucent, thermoplastic mouldable, weldable, permanently elastic, non-shrinking	depending on material thickness approx. 130 – 135 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41.
Streifyflex Black (EVA)	400 x 400 x 9, 12, 14 and 18 mm	111P71/..	for very soft, flexible inner sockets in above knee prostheses, ISNY-technology	black, thermoplastic mouldable, weldable, permanently elastic, non-shrinking	depending on material thickness approx. 130 – 135 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41.
Streifyflex Super Plus (EVA)	400 x 400 x 12 and 17 mm	111P99/..	for soft flexible inner sockets in above knee prostheses, ISNY-technology, CAT-CAM-technology and especially for anatomical sockets (MAS)	milky-white colour, thermoplastic mouldable, permanently elastic, wax-like surface	depending on material thickness approx. 160 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41.
Streifytec flexible (Ionomer)	400 x 400 x 4.7, 6.3, 8.5 and 11 mm	111P174/..	semi-flexible deep-drawing material for partially flexible inner sockets; thinner diameters are suitable for break-proof face masks	clear to translucent, thermoplastic mouldable, depending on wall thickness rigid to partially flexible	depending on material thickness approx. 160 °C	Our Nylon Stockinette item-no. 95P2 is very well suitable for insulating the plaster cast model; alternatively, the backside of PE-Thermofabric item-no. 8T26/.. resp. 8T52 can be used.

Deep-drawing material term	Dimension	Item-No.	Application	Characteristics	Processing temperature	Additional technical information
Streifytec Extra-Soft (EVA)	400 x 400 x 9 and 12 mm	111P176/..	for very soft, flexible inner sockets in above knee prostheses, ISNY-technology	translucent, thermoplastic mouldable, weldable, permanently elastic, non-shrinking	depending on material thickness approx. 150 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41.
Streifytec Extra-Soft with silicone (EVA)	400 x 400 x 9 and 12 mm	111P178/.., 111P179/..	like Streifyflex, silicone additive increases adherence to the skin of the residual limb; thin diameters are well suitable for arm prosthetics	milky-white colour, thermoplastic mouldable, permanently elastic, wax-like surface	depending on material thickness approx. 150 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41.
Streifytec Excel (EVA)	400 x 400 x 10, 12 and 15 mm	111P183/..	for very soft, flexible inner sockets in above knee prostheses, ISNY-technology	translucent, thermoplastic mouldable, weldable, permanently elastic, non-shrinking	depending on material thickness approx. 135 °C	For dry, pre-warmed and smoothed plaster cast models; use silicone spray for better insulation. In case of indentations, drill holes into the plaster cast model and fill the holes with Dacron-Felt, item-no. 140P41; softest deep-drawing material in our product range.





Streifylen


Material
 • professional polyethylene-material for orthopaedic technology

Application
 • excellently suitable for manufacturing of night braces, positioning supports and corsets

Characteristics
 • weldable
 • deep drawable
 • suitable for hammering
 • very low material shrinkage
 • moldable at approx. 120 °C (111P17/1, 111P19/1)
 • moldable at approx. 120-140 °C (111P17/2)
 • moldable at approx. 165-175 °C (111P17/3-111P17/8, 11P19/3-111P19/5)

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Colour	Item-No.
2000 x 1000 x 1 mm	white	111P17/1
2000 x 1000 x 2 mm	white	111P17/2
2000 x 1000 x 3 mm	white	111P17/3
2000 x 1000 x 4 mm	white	111P17/4
2000 x 1000 x 5 mm	white	111P17/5
2000 x 1000 x 6 mm	white	111P17/6
2000 x 1000 x 8 mm	white	111P17/8
2000 x 1000 x 1 mm	peach	111P19/1
2000 x 1000 x 3 mm	peach	111P19/3
2000 x 1000 x 4 mm	peach	111P19/4

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.



Streifylen PE-HWST

Material

- polyethylene
- colour: white

Application

- suitable for positioning splints and orthoses

Characteristics

- weldable
- deep drawable
- moldable at approx. 165-175 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 1 mm	111P117/1
2000 x 1000 x 2 mm	111P117/2
2000 x 1000 x 3 mm	111P117/3
2000 x 1000 x 4 mm	111P117/4
2000 x 1000 x 5 mm	111P117/5
2000 x 1000 x 6 mm	111P117/6
2000 x 1000 x 8 mm	111P117/8
2000 x 1000 x 10 mm	111P117/10
2000 x 1000 x 20 mm	111P117/20

Streifycolor



Material

- polyethylene-material for orthopaedic technology
- colour: black

Application


- for manufacturing of stiffer positioning splints and supportive orthoses

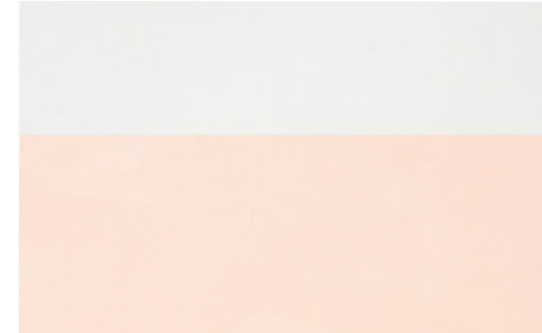
Characteristics

- due to it's black color more rigid than white Streifylen
- weldable
- deep drawable
- moldable at approx. 165-180 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 2 mm	111P20/2
2000 x 1000 x 3 mm	111P20/3
2000 x 1000 x 4 mm	111P20/4
2000 x 1000 x 5 mm	111P20/5
2000 x 1000 x 6 mm	111P20/6
2000 x 1000 x 10 mm	111P20/10
2000 x 1000 x 15 mm	111P20/15
2000 x 1000 x 20 mm	111P20/20

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.



Streifylast/Trolen

Material

- soft-polyethylene-material for orthopaedic technology

Application


- excellently suitable for manufacturing of partially flexible orthoses, flaps and inserts
- thin (1-2 mm) Streifylast/Trolen is often used also as foaming aid

Characteristics

- deep drawable
- weldable at higher temperatures
- moldable at approx. 130-160 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Color	Item-No.
2000 x 1000 x 1 mm	milky-white	111P29/1
2000 x 1000 x 2 mm	milky-white	111P29/2
2000 x 1000 x 3 mm	milky-white	111P29/3
2000 x 1000 x 4 mm	milky-white	111P29/4
2000 x 1000 x 5 mm	milky-white	111P29/5
2000 x 1000 x 3 mm	peach	111P30/3
2000 x 1000 x 4,5 mm	peach	111P30/45

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.

Streifylast Plus



Material

- polyethylene with low density (LDPE)
- colour: milky-white

Application

- suitable for inner-sockets and container-sockets (e. g. CAT-CAM-socket-design)

Characteristics

- semi-elastic
- deep drawable
- moldable at approx. 150 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 10 mm	111P97/10
400 x 400 x 12 mm	111P97/12
400 x 400 x 15 mm	111P97/15
2000 x 1000 x 10 mm	111P96/10
2000 x 1000 x 12 mm	111P96/12
2050 x 850 x 15 mm	111P96/15

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.

Streifydur



Material

- polypropylene
- colour: milky-white/transparent

Application


- suitable for positioning splints and orthoses

Characteristics

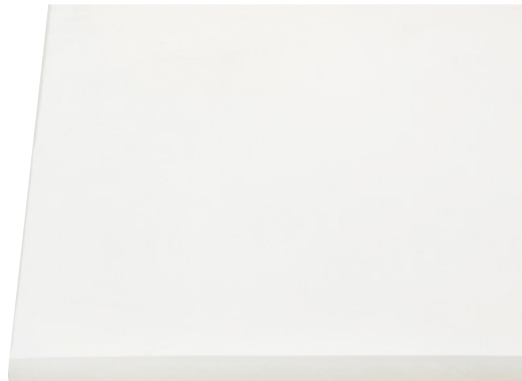
- weldable
- deep drawable
- moldable at approx. 175-190 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 1 mm	111P25/1
2000 x 1000 x 2 mm	111P25/2
2000 x 1000 x 3 mm	111P25/3
2000 x 1000 x 4 mm	111P25/4
2000 x 1000 x 5 mm	111P25/5

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.

Streifydur Ortho



Material

- extruded copolymer (PP blend)
- colour: white

Application

- suitable for positioning splints and orthoses


Characteristics

- colorable
- semi-flexible
- weldable
- low shrinkage
- brake proof
- scratch resistant
- light weight
- easy to cut, grind and polish
- physiologically harmless
- deep drawable
- moldable at approx. 180-195 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
2000 x 1000 x 2 mm	111P127/2
2000 x 1000 x 3 mm	111P127/3
2000 x 1000 x 4 mm	111P127/4

The material is particularly suitable for semi-flexible inlays.

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.

Streifydur Plus



Material

- polypropylene especially designed for orthopaedic technology (PP-blend)
- colour: milky-white

Application


- optimally suitable for manufacturing of AFOs, DAFOs and other orthoses

Characteristics

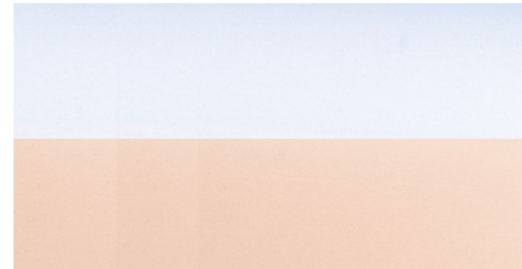
- deep drawable
- weldable
- moldable at approx. 185-200 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 2 mm	111P125/2
2000 x 1000 x 3 mm	111P125/3
2000 x 1000 x 4 mm	111P125/4
2000 x 1000 x 5 mm	111P125/5
2000 x 1000 x 6 mm	111P125/6

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.

Copolymer



Material

- special polyethylene-polypropylene mixture

Application


- optimally suitable for manufacturing of orthoses, positioning splints and corsets

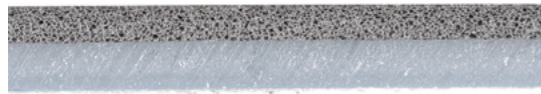
Characteristics

- deep drawable
- weldable
- impact resistant
- moldable at approx. 175-190 °C

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Colour	Item-No.
2000 x 1000 x 2 mm	white	111P150/2
2000 x 1000 x 3 mm	white	111P150/3
2000 x 1000 x 4 mm	white	111P150/4
2000 x 1000 x 5 mm	white	111P150/5
2000 x 1000 x 6 mm	white	111P150/6
2000 x 1000 x 2 mm	peach	111P151/2
2000 x 1000 x 3 mm	peach	111P151/3
2000 x 1000 x 4 mm	peach	111P151/4
2000 x 1000 x 5 mm	peach	111P151/5
2000 x 1000 x 6 mm	peach	111P151/6

 Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.



Streifylit Duo

Material

- polyolefine-blend with foam cover, PO-film
- colour plastic: milky transparent
- colour foam: anthracite

Application

- for manufacturing individual orthotic braces with integrated padding in one single deep-drawing process

Eigenschaften

- deep-drawable
- suitable for colouring
- light-weight
- low shrinking rate
- break resistant
- scratch resistant
- easy to cut, grind and polish
- moulding temperature approx. 160°C

Dimensions L x W x H	Item-No.
1000 x 1200 x 4,5 mm	111P500/4,5

The material is not suitable for load-bearing devices.

! Heat with foam side down in an infrared-oven on clean PTFE-sheeting. After finishing the brace, set back the foam by briefly heating it with a hot-air gun.



RCH 500

Material

- pressed high-density polyethylene (PE-HMW)

Application

- suitable for very firm and stable orthoses (e.g. drop-foot-orthoses)

Characteristics

- deep drawable
- suitable for hammering
- moldable at approx. 170 °C

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
1930 x 930 x 2 mm	natural white	111P130/2
1930 x 930 x 3 mm	natural white	111P130/3
1930 x 930 x 4 mm	natural white	111P130/4
1930 x 930 x 5 mm	natural white	111P130/5
1930 x 930 x 1 mm	caucasian	111P132/1
1930 x 930 x 2 mm	caucasian	111P132/2
1930 x 930 x 3 mm	caucasian	111P132/3
1930 x 930 x 4 mm	caucasian	111P132/4
1930 x 930 x 5 mm	caucasian	111P132/5
1910 x 920 x 3 mm	batik	111P140/3
1910 x 920 x 4 mm	batik	111P140/4

! Depending on oven type, always use a clean PTFE-coating; talcum or aggressive cleaning aids (e.g. acetone) will damage the material surface. The dryer the model, the less material shrinkage is detectable.

Colouring Paper



120P1/03 120P1/04



120P1/05 120P1/06



120P1/07 120P1/08



120P1/09 120P1/10



120P1/11

Material

- thin paper
- paper weight approx. 16 g/sqm

Application

- for coloured design of white/transparent Streifylen, Streifydur, Copolymer, hook- and loop straps and fabrics

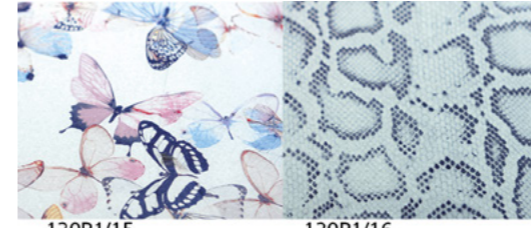
Characteristics

- with coloured motif print

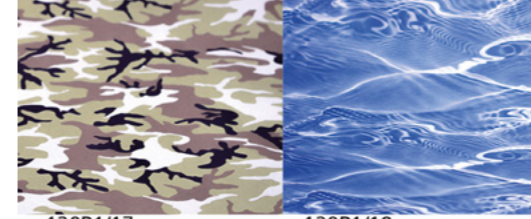
PU = 1 sheet

Dimensions L x W	Design	Item-no.
1000 x 1600 mm	Cactus	120P1/03
1000 x 1600 mm	Universe	120P1/04
1000 x 1600 mm	Motorbikes	120P1/05
1000 x 1600 mm	Monster cars	120P1/06
1000 x 1600 mm	Fox ahoi	120P1/07
1000 x 1600 mm	Sailor blue	120P1/08
1000 x 1600 mm	Sailor white	120P1/09
1000 x 1600 mm	Tattoo black	120P1/10
1000 x 1600 mm	Tattoo multi-coloured	120P1/11

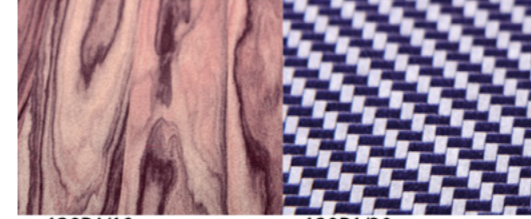
Colouring Paper



120P1/15 120P1/16



120P1/17 120P1/18



120P1/19 120P1/20



120P1/21 120P1/24



120P1/26

Material

- thin paper
- paper weight approx. 16 g/sqm

Application

- for coloured design of white/transparent Streifylen, Streifydur, Copolymer, hook- and loop straps and fabrics

Characteristics

- with coloured motif print

PU = 1 sheet

Dimensions L x W	Design	Item-no.
1000 x 1600 mm	Butterfly	120P1/15
1000 x 1600 mm	Cobra	120P1/16
1000 x 1600 mm	Camouflage	120P1/17
1000 x 1600 mm	Waves	120P1/18
1000 x 1600 mm	Palisander wood	120P1/19
1000 x 1600 mm	Carbon	120P1/20
1000 x 1600 mm	Jeans	120P1/21
1000 x 1600 mm	red	120P1/24
1000 x 1600 mm	brown	120P1/26

Colouring paper



Material

- thin paper
- paper weight approx. 25 g/qm

Application

- for coloured design of thermoplastic synthetics like Streifylen, Streifydur, or hook- and loop straps and fabrics
- contact time: 15-25 seconds
- temperature: 140-220 °C

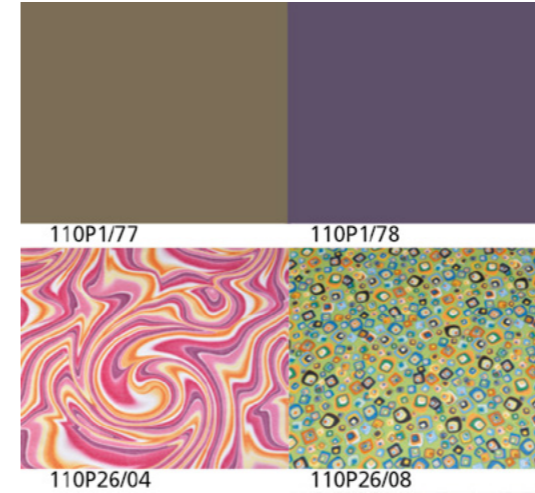
Characteristics

- single-coloured or with motif print

Sales unit = 1 sheet = 1000x1600 mm

Motive	Item-No.
Carbon	120P5/01
Butterflies	120P5/02
Waves	120P5/03
Palm trees	120P5/04
Jeans	120P5/05
Pinki	120P5/06
Camouflage	120P5/07
Tattoo	120P5/08
Hawaiiana	120P5/09
Unicorns	120P5/10
Zebra	120P5/11
Dinosaurs	120P5/12
Natural	120P5/13
Travel	120P5/14
Robots	120P5/15
Black	120P5/16
Blue	120P5/17

Colouring Paper



Material

- thin paper
- paper weight approx. 16 g/sqm

Application

- for coloured design of white/transparent Streifylen, Streifydur, Copolymer, hook- and loop straps and fabrics

Characteristics

- with coloured motif print

PU = 1 sheet

Dimensions L x W	Motif	Item-No.
1600 x 1000 mm	peach dark	110P1/77
1600 x 1000 mm	purple	110P1/78
1600 x 1000 mm	Lava	110P26/04
1600 x 1000 mm	Green squares	110P26/08

Decoration Lamination Fabrics and -Tubes



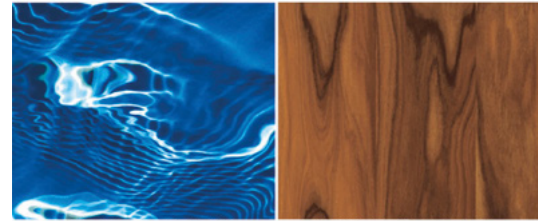
130P1/02, 131P1/02

130P1/05, 131P1/05



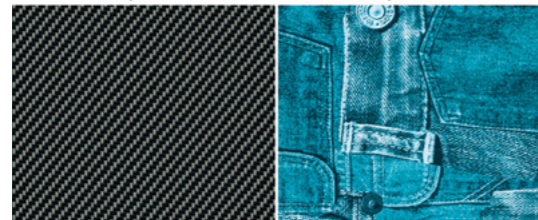
130P1/11, 131P1/11

130P1/17, 131P1/17



130P1/18, 131P1/18

130P1/19, 131P1/19



130P1/20, 131P1/20

130P1/21, 131P1/21



130P1/01

Material

- 83% polyester and 17 % elasthane
- weight 180 g/sqm

Application

- decoration fabric for the first or last layer in lamination and Prepreg technology

Characteristics

- coloured motif print
- shiny, smooth surface
- longitudinal expansion 135 %
- transverse expansion 80 %

PU = metre or piece (for tubular fabric)

Decoration Lamination Fabrics

Dimensions L x W	Motif	Item-No.
1000 x 1600 mm	white	130P1/01
1000 x 1600 mm	Pin up	130P1/02
1000 x 1600 mm	Motorbikes	130P1/05
1000 x 1600 mm	Tattoo bunt	130P1/11
1000 x 1600 mm	Camouflage	130P1/17
1000 x 1600 mm	Waves	130P1/18
1000 x 1600 mm	Palisander Wood	130P1/19
1000 x 1600 mm	Carbon	130P1/20
1000 x 1600 mm	Jeans	130P1/21

Decoration Lamination Tubes

Dimensions L x W	Motif	Item-No.
1600 x 150 mm	Pin up	131P1/02S
1600 x 200 mm	Pin up	131P1/02M
1600 x 150 mm	Moterbikes	131P1/05S
1600 x 200 mm	Motorbikes	131P1/05M
1600 x 150 mm	Tattoo bunt	131P1/11S
1600 x 200 mm	Tattoo bunt	131P1/11M
1600 x 150 mm	Camouflage	131P1/17S
1600 x 200 mm	Camouflage	131P1/17M
1600 x 150 mm	Waves	131P1/18S
1600 x 200 mm	Waves	131P1/18M
1600 x 150 mm	Palisander wood	131P1/19S
1600 x 200 mm	Palisander wood	131P1/19M
1600 x 150 mm	Carbon	131P1/20S
1600 x 200 mm	Carbon	131P1/20M
1600 x 150 mm	Jeans	131P1/21S
1600 x 200 mm	Jeans	131P1/21M



PET

Material

- polyethylene terephthalate-glycol (PETG)
- colour: clear

Application

- for temporary and trial sockets and face masks

Characteristics

- physiologically safe
- disinfectable
- highly break-proof
- no evident shrinking
- moldable at approx. 160-170 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 8 mm	111P68/8
400 x 400 x 10 mm	111P68/10
400 x 400 x 12 mm	111P68/12
400 x 400 x 15 mm	111P68/15
400 x 400 x 20 mm	111P68/20
1200 x 800 x 8 mm	111P67/8
1200 x 800 x 10 mm	111P67/10
1200 x 800 x 12 mm	111P67/12
1200 x 800 x 15 mm	111P67/15
1200 x 800 x 20 mm	111P67/20
2000 x 1000 x 2 mm	111P18/2
2000 x 1000 x 3 mm	111P18/3
2000 x 1000 x 4 mm	111P18/4
2000 x 1000 x 5 mm	111P18/5
2000 x 1000 x 6 mm	111P18/6
2000 x 1000 x 8 mm	111P18/8

In bonds with sealing-resin hand laminates, PETG tends to become brittle due to the solvents in the sealing-resin. To secure trial sockets, please use our Cellacast Xtra Dressing Material item-no. 99P40. Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifydur

Material

- polypropylene
- colour: milky-white

Application


- suitable self-supporting for container-sockets (e. g. CAT-CAM-socket-design)

Characteristics

- very rigid
- sweat-resistant
- disinfectable
- deep drawable
- weldable
- good heat flowability
- moldable at approx. 185-200 °C

PU = 1 sheet

L x W x Thickness	Item-No.
400 x 400 x 8 mm	111P63/8
400 x 400 x 10 mm	111P63/10
400 x 400 x 12 mm	111P63/12
400 x 400 x 15 mm	111P63/15
400 x 400 x 20 mm	111P63/20

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifyflex Black

Material

- ethylene vinyl acetate (EVA)
- colour: black

Application

- suitable for flexible inner sockets, especially for above-knee sockets (ISNY-socket technology)

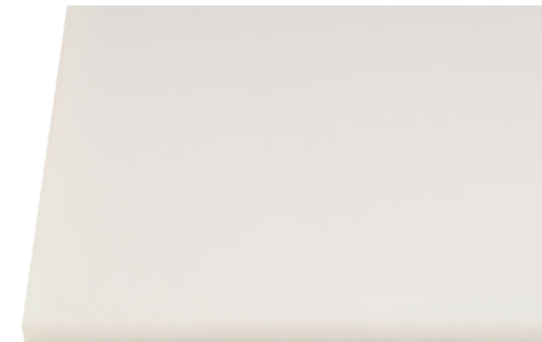
Characteristics

- permanent elasticity
- deep drawable
- moldable at approx. 130-135 °C

PU = 1 sheet

L x W x Thickness	Item-No.
400 x 400 x 9 mm	111P71/9
400 x 400 x 12 mm	111P71/12
400 x 400 x 14 mm	111P71/14
400 x 400 x 18 mm	111P71/18

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifyflex Super Plus

Material

- ethylene vinyl acetate (EVA)
- colour: milky-white

Application


- suitable for flexible inner sockets for above-knee sockets, especially for M.A.S.-, CAT-CAM- or ISNY-socket technology

Characteristics

- semi-elastic
- deep drawable
- moldable at approx. 160 °C

PU = 1 sheet

L x W x Thickness	Item-No.
400 x 400 x 12 mm	111P99/12
400 x 400 x 15 mm	111P99/17

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.

Streifyflex

Material

- ethylene vinyl acetate (EVA)
- colour: translucent

Application


- suitable for flexible inner sockets, especially for above-knee sockets (ISNY-socket technology)

Characteristics

- permanent elasticity
- deep drawable
- moldable at approx. 130-135 °C

PU = 1 sheet

L x W x Thickness	Item-No.
400 x 400 x 9 mm	111P62/9
400 x 400 x 12 mm	111P62/12
400 x 400 x 14 mm	111P62/14

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifyflex - „Deep Drawing Sheeting“, Clear

Material

- ethylene vinyl acetate (EVA)
- colour: transparent

Application

- for shoe-insoles
- for water-resistant splints and supports
- for hand (metacarpus) splints and forerarm splints
- in arm prosthetics, for foot prostheses (e. g. according to Bellmann)
- for prostheses sockets

Characteristics

- permanent elasticity
- deep drawable
- skin-friendly
- disinfectable
- moldable at approx. 120-135 °C

Helpful processing hints


- processing vacuum very low
- 20 % vacuum performance measured by a vacuum device, Vacumat Plus item-no. 168P50
- finely woven heat protective gloves item-no. 12P12
- short distance from oven to model
- clean sheeting on heating panel, no talcum powder
- perforate welded-on reinforcements to avoid air-pockets

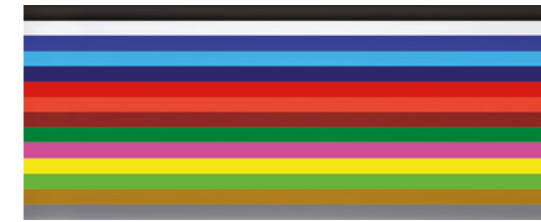
Insulation to model

- nylon stockinette item-no. 95P2/...
- silicone spray item-no. 116P11

PU = 1 roll

Thickness	PU	Item-No.
1,5 mm	1 sqm (piece)	111P262/1
2 mm	1 sqm (piece)	111P262/2
3 mm	1 sqm (piece)	111P262/3
4 mm	1 sqm (piece)	111P262/4
5 mm	1 sqm (piece)	111P262/5
1,5 mm	5 sqm (roll)	111P162/1
2 mm	5 sqm (roll)	111P162/2
3 mm	5 sqm (roll)	111P162/3
4 mm	5 sqm (roll)	111P162/4

 Streifyflex deep drawing sheeting can be glued with Ortec special glue item-no. 118P18. Carefully grind and degrease the areas where you intend to bond; apply adhesive to both sides, let it flash off, then press together.



Streifyflex Color

Material

- ethylene vinyl acetate (EVA)

Application

- for shoe-insoles
- for water-resistant splints and supports
- for hand (metacarpus) splints and forerarm splints
- in arm prosthetics, for foot prostheses (e. g. according to Bellmann)
- for prostheses sockets

Characteristics

- permanent elasticity
- deep drawable
- skin-friendly
- disinfectable
- moldable at approx. 120-135 °C

Helpful processing hints

- processing vacuum very low
- 20 % vacuum performance measured by a vacuum device, Vacumat Plus item-no. 168P50
- finely woven heat protective gloves item-no. 12P12
- short distance from oven to model
- clean sheeting on heating panel, no talcum powder
- perforate welded-on reinforcements to avoid air-pockets


Insulation to model

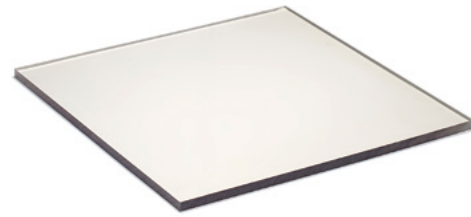
- nylon stockinette item-no. 95P2/...
- silicone spray item-no. 116P11

PU = 1 sheet

L x W	Thickness	Colour	Item-No.
1115 x 900 mm	2 mm or 4 mm	white	111P263/...
1115 x 900 mm	2 mm or 4 mm	black	111P264/...
1115 x 900 mm	2 mm or 4 mm	blue	111P265/...
1115 x 900 mm	2 mm or 4 mm	light blue	111P266/...
1115 x 900 mm	2 mm or 4 mm	dark blue	111P267/...
1115 x 900 mm	2 mm or 4 mm	red	111P268/...
1115 x 900 mm	2 mm or 4 mm	light red	111P269/...
1115 x 900 mm	2 mm or 4 mm	dark red	111P270/...
1115 x 900 mm	2 mm or 4 mm	green	111P271/...
1115 x 900 mm	2 mm or 4 mm	neon pink	111P272/...
1115 x 900 mm	2 mm or 4 mm	neon yellow	111P273/...
1115 x 900 mm	2 mm or 4 mm	neon green	111P274/...
1115 x 900 mm	2 mm or 4 mm	gold	111P275/...
1115 x 900 mm	2 mm or 4 mm	silver	111P276/...

Order example: „111P263/“ + „2“ (2 mm thickness) or „4“ (4 mm thickness)

 Streifyflex Color is well suitable for bonding with Ortec glue item-no. 118P18. Thoroughly roughen and degrease the surfaces to be bonded, apply glue on both sides, let it evaporate and press surfaces together.



Streifytec PETG

Material

- polyethylene terephthalate-glycol (PETG)
- colour: crystal clear

Application


- for particularly break-proof interim and trial sockets as well as face masks

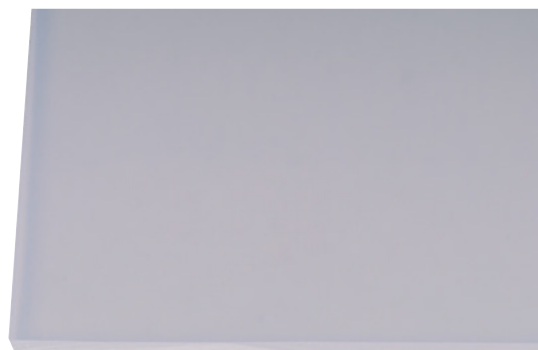
Characteristics

- physiologically harmless
- disinfectable
- extremely high breaking strength
- improved impact strength
- no visible shrinkage
- deformation temperature approx. 160-170 °C

packing unit = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 12 mm	111P69/12
400 x 400 x 15 mm	111P69/15

 Store PETG material in a dry place. PETG tends to become brittle through contact with solvents or solvent-containing resins. Therefore, to secure trial sockets, please use our Cellacast Xtra support bandages item-no. 99P40. The deep-drawing process is facilitated by the use of non-stick masks item-no. 168P75/S.



Streifytec Stiff

Material

- polystyrene
- colour: blueish transparent

Application


- excellently suitable for high-strength, permanently resilient, temporary and trial sockets

Properties

- very hard
- highly break-proof
- self-supporting
- deep drawable
- mouldable at approx. 170 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 8 mm	111P170/8
400 x 400 x 10 mm	111P170/10
400 x 400 x 12 mm	111P170/12
400 x 400 x 15 mm	111P170/15

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifytec Extra Soft

Material

- ethylene vinyl acetate (EVA)
- colour: translucent

Application

- soft and flexible material for inner sockets for above-knee prostheses (ISNY socket technology)

Characteristics

- soft
- deep drawable
- moldable at approx. 135 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 9 mm	111P176/9
400 x 400 x 12 mm	111P176/12

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.



Streifytec Extra Soft, with Silicone

Material

- ethylene vinyl acetate (EVA) with silicone additive
- colour: milky-white

Application

- soft and flexible material for inner sockets for above-knee prostheses or for arm prostheses (ISNY socket technology)
- very good adhesion to stump skin

Characteristics

- soft
- deep drawable
- moldable at approx. 150 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 9 mm	111P178/9
400 x 400 x 12 mm	111P178/12

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.

Streifytec Excel



Material

- PE copolymer
- colour: transparent

Application


- suitable for soft and flexible inner sockets for above-knee sockets (ISNY-socket technology)

Properties

- deep drawable
- very low shrinkage
- Does not yellow due to environmental influences
- approx. 8% lighter than EVA
- low creeping
- mouldable at approx. 135 °C

PU = 1 sheet

Dimensions L x W x H	Item-No.
400 x 400 x 10 mm	111P183/10
400 x 400 x 12 mm	111P183/12
400 x 400 x 15 mm	111P183/15

 Deep drawing is facilitated by using antiadhesive templates item-no. 168P75/S.

Turbocast



Material

polyblend

Application


- suitable for the production of temporary correction and positioning orthoses

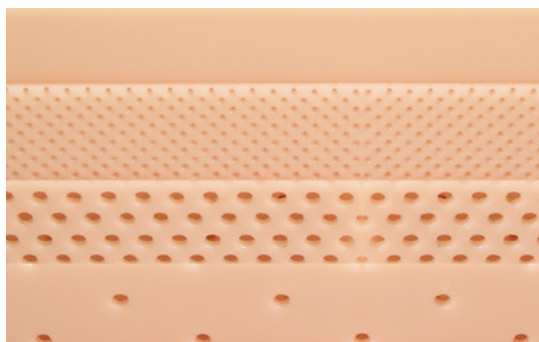
Characteristics

- very good cutting, stretching and forming properties
- can be modelled directly on the skin after a short cooling time to approx. 40 °C
- activation temperature approx. 75 °C in the water bath, approx. 90 °C in the steam bath and approx. 100 °C in the IR oven

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
600 x 410 x 0,8 mm	green	111P81/08
600 x 430 x 1,6 mm	green	111P81/16
600 x 440 x 2,0 mm	green	111P81/20
600 x 450 x 3,0 mm	green	111P81/30
900 x 600 x 3,0 mm	green	111P810/30
600 x 410 x 0,8 mm	peach	111P86/08
600 x 430 x 1,6 mm	peach	111P86/16
600 x 440 x 2,0 mm	peach	111P86/20
600 x 450 x 3,0 mm	peach	111P86/30
600 x 450 x 4,0 mm	peach	111P86/40
900 x 600 x 3,0 mm	peach	111P860/30
900 x 600 x 4,0 mm	peach	111P860/40
600 x 410 x 0,8 mm	pink	111P87/08
600 x 430 x 1,6 mm	pink	111P87/16
600 x 440 x 2,0 mm	pink	111P87/20
900 x 600 x 3,0 mm	pink	111P870/30
600 x 410 x 0,8 mm	yellow	111P88/08
600 x 430 x 1,6 mm	yellow	111P88/16
600 x 440 x 2,0 mm	yellow	111P88/20
600 x 450 x 3,0 mm	yellow	111P88/30
900 x 600 x 3,0 mm	yellow	111P880/30
600 x 410 x 0,8 mm	blue	111P89/08
600 x 430 x 1,6 mm	blue	111P89/16
600 x 440 x 2,0 mm	blue	111P89/20
600 x 450 x 3,0 mm	blue	111P89/30
900 x 600 x 3,0 mm	blue	111P890/30

 Due to the special coatings there is no sticking to the skin and hair. Shaped material can be returned to its original state by reheating. For heating use water bath/steam bath item-no. 35M1/1 or infrared heating cabinet item-no. 51M10/3540.



Turbocast „Ortho“

Material

- polyblend
- colour: peach

Application

- suitable for the production of temporary correction and positioning orthoses

Characteristics

- very good cutting, stretching and forming properties
- can be applied on the patient after a short cooling time to approx. 40 °C
- activation temperature approx. 75 °C in the water bath, approx. 90 °C in the steam bath and approx. 100 °C in the IR oven

PU = 1 sheet

Dimensions L x W x H	Version	Item-No.
600 x 440 x 2,0 mm	non perforated	111P82/20
600 x 900 x 3,2 mm	non perforated	111P82/32
600 x 900 x 4,0 mm	non perforated	111P82/40
600 x 430 x 1,6 mm	micro, fine perforated	111P83/16
600 x 440 x 2,0 mm	micro, fine perforated	111P83/20
600 x 440 x 2,0 mm	mini, medium perforated	111P84/20
600 x 450 x 2,5 mm	mini, medium perforated	111P84/25
600 x 450 x 3,2 mm	mini, medium perforated	111P84/32
600 x 440 x 2,0 mm	multi, coarse perforated	111P85/20
600 x 450 x 3,2 mm	multi, coarse perforated	111P85/32



For heating use water bath/steam bath item-no. 35M1/1 or infrared heating cabinet item-no. 51M10/3540. For insulation of the skin, please use our body protection stockinette, item-no. 99P12.

Cushioning Material



Cushioning Material

In modern orthopaedic technology and orthopaedic shoe technology, more and more complex supply solutions are realized. This does not only make high demands on the professional qualification of orthopaedic technicians and orthopaedic shoe technicians but also on the materials used.

Subsequently, you will find a large variety of open-cell and closed-cell cushioning materials with different grades of shore hardness, damping and density. Additionally, we carry these materials in many different colours

Closed-cell foam materials

(e. g. Varioform, Colorfoam, Plastazote)

- Are thermoformable and thereby guarantee for a precisely fitting patient supply
- Degree of hardness is indicated in Shore A; the lower the Shore grade, the softer the plastic foam
- In orthopaedic technology and orthopaedic shoe technology primarily PE (foamed polyethylene) and EVA (foamed ethylene vinyl acetate) are used

All cushioning materials of Streifeneder ortho. production GmbH are absolutely skin-friendly and are subject to constant and rigorous quality controls. Therefore, we always strictly meet the raw materials requirements issued by the german Medical Product Law MPG. In addition, all our cushioning materials are of course AZO-free dyes.

Open-cell foam materials

(e. g. Memory foam, PPT)

- Are primarily used for positioning and cushioning
- Strength is indicated in density; the higher the density, the stronger is the plastic foam
- In orthopaedic technology predominantly foams made of PUR (polyurethane) are used



Cushioning Material



Plastazote

Material

- cell-polyethylene foam

Application

- for padding of positioning splints and correctional braces (e.g. orthoses resp. insoles)

Characteristics

- closed-celled expanded PE
- washable
- suitable for processing with Streifylen and Streifycolor
- molding temperature depending on heat source approx. 100-130 °C
- approx. 15-18 Shore A

Dimensions L x W x H	Colour	PU	Item-No.
2000 x 1000 x 2 mm	white	2 sqm	111P21/2
2000 x 1000 x 3 mm	white	2 sqm	111P21/3
2000 x 1000 x 4 mm	white	2 sqm	111P21/4
2000 x 1000 x 5 mm	white	2 sqm	111P21/5
2000 x 1000 x 6 mm	white	2 sqm	111P21/6
2000 x 1000 x 8 mm	white	2 sqm	111P21/8
2000 x 1000 x 10 mm	white	2 sqm	111P21/10
2000 x 1000 x 12 mm	white	2 sqm	111P21/12
2000 x 1000 x 15 mm	white	2 sqm	111P21/15
2000 x 1000 x 20 mm	white	2 sqm	111P21/20
1000 x 1000 x 2 mm	peach	1 sqm	111P28/2
1000 x 1000 x 3 mm	peach	1 sqm	111P28/3
1000 x 1000 x 4 mm	peach	1 sqm	111P28/4
1000 x 1000 x 5 mm	peach	1 sqm	111P28/5
1000 x 1000 x 6 mm	peach	1 sqm	111P28/6
1000 x 1000 x 8 mm	peach	1 sqm	111P28/8
1000 x 1000 x 10 mm	peach	1 sqm	111P28/10
1000 x 1000 x 12 mm	peach	1 sqm	111P28/12
1000 x 1000 x 15 mm	peach	1 sqm	111P28/15
1000 x 1000 x 18 mm	peach	1 sqm	111P28/18
1000 x 1000 x 20 mm	peach	1 sqm	111P28/20
1000 x 1000 x 25 mm	peach	1 sqm	111P28/25

Other thicknesses are available upon request!



Plastazote

Material

- cell-polyethylene foam

Application

- for padding of positioning splints and correctional braces (e.g. orthoses resp. insoles)

Characteristics

- closed-celled expanded PE
- washable
- suitable for processing with Streifylen and Streifycolor
- molding temperature depending on heat source approx. 100-130 °C
- approx. 15-18 Shore A

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Colour	Item-No.
2000 x 1000 x 2 mm	blue	111P34/2
2000 x 1000 x 3 mm	blue	111P34/3
2000 x 1000 x 4 mm	blue	111P34/4
2000 x 1000 x 5 mm	blue	111P34/5
2000 x 1000 x 6 mm	blue	111P34/6
2000 x 1000 x 8 mm	blue	111P34/8
2000 x 1000 x 10 mm	blue	111P34/10
2000 x 1000 x 12 mm	blue	111P34/12
2000 x 1000 x 20 mm	blue	111P34/20
2000 x 1000 x 2 mm	red	111P46/2
2000 x 1000 x 3 mm	red	111P46/3
2000 x 1000 x 4 mm	red	111P46/4
2000 x 1000 x 6 mm	red	111P46/6
2000 x 1000 x 12 mm	red	111P46/12
2000 x 1000 x 3 mm	yellow	111P47/3
2000 x 1000 x 4 mm	yellow	111P47/4
2000 x 1000 x 6 mm	yellow	111P47/6
2000 x 1000 x 12 mm	yellow	111P47/12
2000 x 1000 x 4 mm	green	111P48/4
2000 x 1000 x 6 mm	green	111P48/6
2000 x 1000 x 2 mm	black	111p49/2
2000 x 1000 x 3 mm	black	111P49/3
2000 x 1000 x 6 mm	black	111P49/6
2000 x 1000 x 8 mm	black	111P49/8
2000 x 1000 x 10 mm	black	111P49/10
2000 x 1000 x 20 mm	black	111P49/20

Other thicknesses are available upon request!



Plastazote perforated

Material

- cell-polyethylene foam

Application

- for padding of positioning splints and correctional braces (e.g. orthoses)

Characteristics

- closed-celled expanded PE
- washable
- suitable for processing with Streifylen and Streifycolor
- molding temperature depending on heat source approx. 100-130 °C
- approx. 15-18 Shore A

PU = 1 sheet (1 sqm)

Dimensions L x W x H	Colour	Item-No.
1000 x 1000 x 3 mm	white	111P44/3
1000 x 1000 x 6 mm	white	111P44/6
1000 x 1000 x 12 mm	white	111P44/12
1000 x 1000 x 2 mm	caucasian	111P38/2
1000 x 1000 x 3 mm	caucasian	111P38/3
1000 x 1000 x 4 mm	caucasian	111P38/4
1000 x 1000 x 5 mm	caucasian	111P38/5
1000 x 1000 x 6 mm	caucasian	111P38/6
1000 x 1000 x 10 mm	caucasian	111P38/10
1000 x 1000 x 12 mm	caucasian	111P38/12
1000 x 1000 x 2 mm	blue	111P54/2
1000 x 1000 x 3 mm	blue	111P54/3
1000 x 1000 x 4 mm	blue	111P54/4
1000 x 1000 x 5 mm	blue	111P54/5
1000 x 1000 x 6 mm	blue	111P54/6
1000 x 1000 x 2 mm	red	111P55/2
1000 x 1000 x 4 mm	red	111P55/4
1000 x 1000 x 6 mm	red	111P55/6
1000 x 1000 x 3 mm	yellow	111P56/3
1000 x 1000 x 4 mm	yellow	111P56/4
1000 x 1000 x 6 mm	yellow	111P56/6
1000 x 1000 x 3 mm	black	111P57/3
1000 x 1000 x 6 mm	black	111P57/6

Other thicknesses are available upon request!



Evazote

- Material**
- EVA-foam

Application

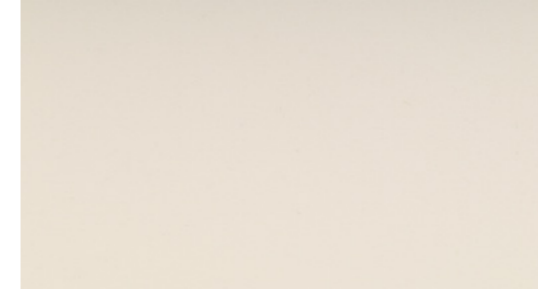
- for padding of positioning splints and correctional braces
- for embeddings of prominent areas in orthoses and insoles

Characteristics

- similar to Plastazote but with a better restoring force
- moldable at approx. 120 °C
- approx. 5 Shore A, depending on colour and material thickness

Dimensions L x W x H	Colour	PU	Item-No.
1000 x 1000 x 3 mm	white	1 sqm	111P91/3
1000 x 1000 x 4 mm	white	1 sqm	111P91/4
1000 x 1000 x 5 mm	white	1 sqm	111P91/5
1000 x 1000 x 6 mm	white	1 sqm	111P91/6
1000 x 1000 x 8 mm	white	1 sqm	111P91/8
1000 x 1000 x 10 mm	white	1 sqm	111P91/10
1000 x 1000 x 12 mm	white	1 sqm	111P91/12
1000 x 1000 x 15 mm	white	1 sqm	111P91/15
1000 x 1000 x 20 mm	white	1 sqm	111P91/20
1000 x 1000 x 2 mm	blue	1 sqm	111P93/2
1000 x 1000 x 3 mm	blue	1 sqm	111P93/3
1000 x 1000 x 4 mm	blue	1 sqm	111P93/4
1000 x 1000 x 5 mm	blue	1 sqm	111P93/5
1000 x 1000 x 6 mm	blue	1 sqm	111P93/6
1000 x 1000 x 8 mm	blue	1 sqm	111P93/8
1000 x 1000 x 10 mm	blue	1 sqm	111P93/10
1000 x 1000 x 15 mm	blue	1 sqm	111P93/15

Other thicknesses are available upon request!



Streifylit

- Material**
- EVA-foam
 - Colour: off-white

Application

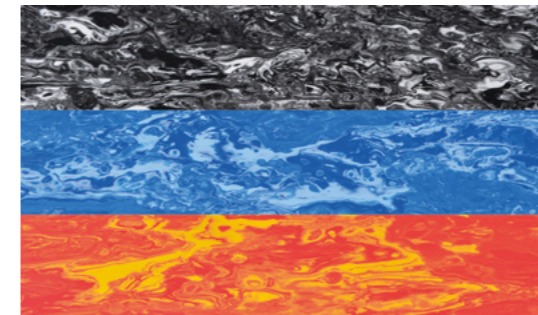
- optimal lining material for corsets and positioning splints

Properties

- closed-celled expanded PE
- glossy surface
- disinfectable
- may be thermoplastic welded with other thermoplastic materials (Streifylast, Streifylen, Copolymer)
- can be processed well with coarse or fine grinding sleeve
- Mouldable at approx. 130-140 °C

Sales unit = 1 roll (5 m)

Dimensions L x W x H	Item-No.
5000 x 760 x 3 mm	110P63/3
5000 x 760 x 5 mm	110P63/5
5000 x 760 x 6 mm	110P63/6



orpron batik

- Material**
- EVA-foam

Application

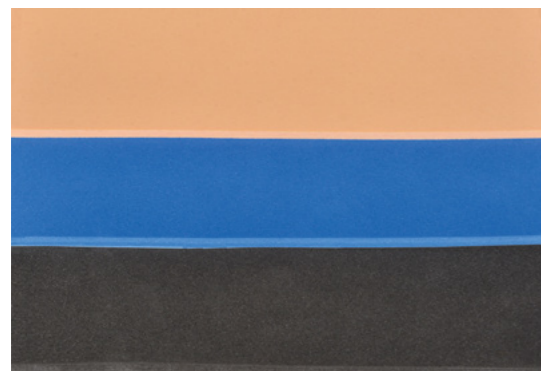
- for paddings of orthoses, insoles and embeddings
- especially for sports- and childrens devices

Characteristics

- lightweight cellular foam-EVA
- polished on both sides
- low specific weight
- moulding temperature: approx. 90-140 °C
- approx. 35-40 shore A, depending on colour and material thickness

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
approx. 1200 x 1000 x 2 mm	black-white	109P70/2
approx. 1200 x 1000 x 3 mm	black-white	109P70/3
approx. 1200 x 1000 x 4 mm	black-white	109P70/4
approx. 1200 x 1000 x 5 mm	black-white	109P70/5
approx. 1200 x 1000 x 6 mm	black-white	109P70/6
approx. 1200 x 1000 x 3 mm	blue-white	109P72/3
approx. 1200 x 1000 x 4 mm	blue-white	109P72/4
approx. 1200 x 1000 x 6 mm	blue-white	109P72/6
approx. 1200 x 1000 x 3 mm	yellow-orange	109P73/3
approx. 1200 x 1000 x 4 mm	yellow-orange	109P73/4
approx. 1200 x 1000 x 6 mm	yellow-orange	109P73/6



Alveolux XRE (rebound)

Material

- PO foam

Application

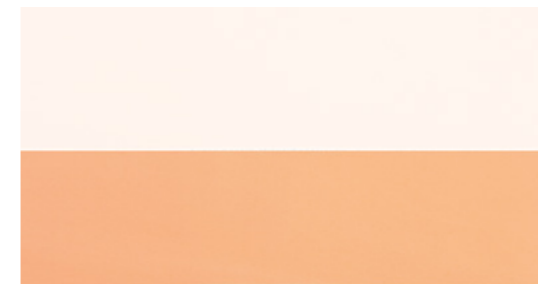
- suitable for manufacturing of sturdy, very soft internal hoppers (soft sockets)
- cushioning for orthoses and insoles

Properties

- very fine, even and closed cell structure
- increased strength with low weight
- high restoring force
- biocompatible
- water-repellent
- washable at 30 °C with mild detergents
- disinfectable
- Rebound-Effekt
- Anti-slip effect
- Mouldable at approx. 120-140 °C
- approx. 14 Shore A

PU = 1 sheet

Dimensions L x W x H	Color	Item-No.
1150 x 1150 x 3 mm	black	111P153/3
1150 x 1150 x 4 mm	black	111P153/4
1150 x 1150 x 5 mm	black	111P153/5
1150 x 1150 x 3 mm	blue	111P154/3
1150 x 1150 x 4 mm	blue	111P154/4
1150 x 1150 x 5 mm	blue	111P154/5
1150 x 1150 x 3 mm	peach	111P155/3
1150 x 1150 x 4 mm	peach	111P155/4
1150 x 1150 x 5 mm	peach	111P155/5



Streifysoft 20

Material

- polyethylene foam

Application


- for soft sockets for sensitive residual limbs and cosmetic shells, as well as paddings in orthotics

Characteristics

- closed-cell PE-foam
- washable
- moldable at approx. 120 °C
- approx. 35 Shore A, depending on colour and material thickness

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
1000 x 1000 x 2 mm	peach	110P62/2
1000 x 1000 x 3 mm	peach	110P62/3
1000 x 1000 x 4 mm	peach	110P62/4
1000 x 1000 x 5 mm	peach	110P62/5
1000 x 1000 x 6 mm	peach	110P62/6
1000 x 1000 x 10 mm	peach	110P62/10
1000 x 1000 x 2 mm	white	110P64/2
1000 x 1000 x 3 mm	white	110P64/3
1000 x 1000 x 4 mm	white	110P64/4
1000 x 1000 x 5 mm	white	110P64/5
1000 x 1000 x 10 mm	white	110P64/10

 Please use our Forte Rapid Adhesive item-no. 118P13 for the adhesion seam of the soft inner socket (soft socket).



Alveolux XSA (shock absorb)

Material

- PO-Foam

Application

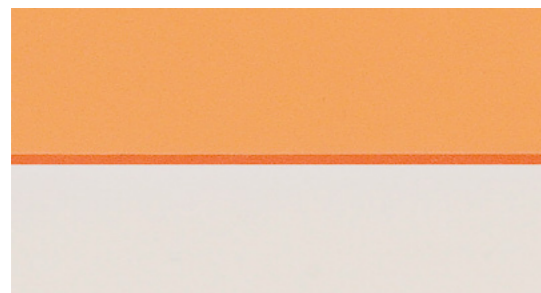
- suitable for manufacturing of soft paddings for insoles and orthoses as well as for internal hoppers (soft sockets)

Characteristics

- fine, even and closed cell structure
- inhibits microbial growth
- good force absorption
- very good restoring force
- biocompatible
- very light-weight
- shock absorption effect
- moulding temperature approx. 120-140 °C
- approx. 19 shore A

PU = 1 sheet

Dimensions L x W x H	Color	Item-No.
1150 x 1150 x 4 mm	light blue	111P152/4
1150 x 1150 x 6 mm	light blue	111P152/6



Varioform

Material

- polyethylene foam

Application


- for cushionings for orthoses as well as softer inner sockets (soft sockets)

Characteristics

- closed-cell PE-foam
- washable
- moldable at approx. 130 °C
- approx. 30 Shore A, depending on colour and material thickness

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
1100 x 1100 x 2 mm	white	111P52/2
1100 x 1100 x 3 mm	white	111P52/3
1100 x 1100 x 4 mm	white	111P52/4
1100 x 1100 x 5 mm	white	111P52/5
1100 x 1100 x 6 mm	white	111P52/6
1100 x 1100 x 7 mm	white	111P52/7
1100 x 1100 x 10 mm	white	111P52/10
1100 x 1100 x 15 mm	white	111P52/15
1100 x 1100 x 20 mm	white	111P52/20
1100 x 1100 x 30 mm	white	111P52/30
1100 x 1100 x 2 mm	peach	111P53/2
1100 x 1100 x 3 mm	peach	111P53/3
1100 x 1100 x 4 mm	peach	111P53/4
1100 x 1100 x 5 mm	peach	111P53/5
1100 x 1100 x 6 mm	peach	111P53/6
1100 x 1100 x 7 mm	peach	111P53/7
1100 x 1100 x 8 mm	peach	111P53/8
1100 x 1100 x 10 mm	peach	111P53/10
1100 x 1100 x 12 mm	peach	111P53/12
1100 x 1100 x 30 mm	peach	111P53/30

 Please use our Forte Rapid Adhesive item-no. 118P13 for the adhesion seam of the soft inner socket (soft socket).



Varioform

Material

- polyethylene foam


Application

- for cushionings for orthoses as well as softer inner sockets (soft sockets)

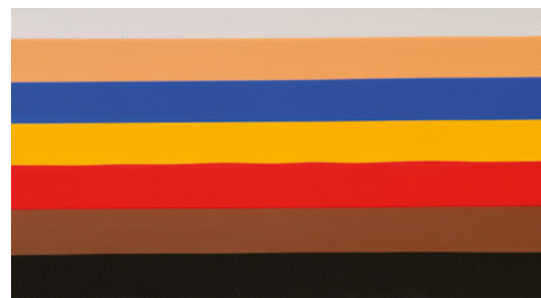
Characteristics

- closed-cell PE-foam
- washable
- moldable at approx. 130 °C
- approx. 30 Shore A, depending on colour and material thickness

PU = 1 sheet

 Please use our Forte Rapid Adhesive item-no. 118P13 for the adhesion seam of the soft inner socket (soft socket).

Dimensions L x W x H	Colour	Item-No.
1100 x 1100 x 2 mm	blue	111P72/2
1100 x 1100 x 3 mm	blue	111P72/3
1100 x 1100 x 4 mm	blue	111P72/4
1100 x 1100 x 5 mm	blue	111P72/5
1100 x 1100 x 6 mm	blue	111P72/6
1100 x 1100 x 7 mm	blue	111P72/7
1100 x 1100 x 10 mm	blue	111P72/10
1100 x 1100 x 12 mm	blue	111P72/12
1100 x 1100 x 15 mm	blue	111P72/15
1100 x 1100 x 30 mm	blue	111P72/30
1100 x 1100 x 2 mm	red	111P73/2
1100 x 1100 x 3 mm	red	111P73/3
1100 x 1100 x 4 mm	red	111P73/4
1100 x 1100 x 5 mm	red	111P73/5
1100 x 1100 x 7 mm	red	111P73/7
1100 x 1100 x 10 mm	red	111P73/10
1100 x 1100 x 15 mm	red	111P73/15
1100 x 1100 x 30 mm	red	111P73/30
1100 x 1100 x 2 mm	yellow	111P74/2
1100 x 1100 x 3 mm	yellow	111P74/3
1100 x 1100 x 4 mm	yellow	111P74/4
1100 x 1100 x 5 mm	yellow	111P74/5
1100 x 1100 x 7 mm	yellow	111P74/7
1100 x 1100 x 10 mm	yellow	111P74/10
1100 x 1100 x 30 mm	yellow	111P74/30
1100 x 1100 x 1 mm	brown	111P75/1
1100 x 1100 x 2 mm	brown	111P75/2
1100 x 1100 x 3 mm	brown	111P75/3
1100 x 1100 x 4 mm	brown	111P75/4
1100 x 1100 x 5 mm	brown	111P75/5
1100 x 1100 x 1 mm	black	111P76/1
1100 x 1100 x 2 mm	black	111P76/2
1100 x 1100 x 3 mm	black	111P76/3
1100 x 1100 x 4 mm	black	111P76/4
1100 x 1100 x 5 mm	black	111P76/5
1100 x 1100 x 15 mm	black	111P76/15
1100 x 1100 x 2 mm	pink	111P79/2
1100 x 1100 x 3 mm	pink	111P79/3
1100 x 1100 x 4 mm	pink	111P79/4
1100 x 1100 x 5 mm	pink	111P79/5



Varioform perforated

Material

- polyethylene foam

Application

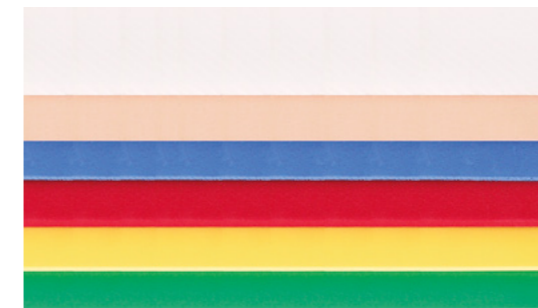
- for cushionings for building orthoses as well as insoles

Characteristics

- closed-cell PE-foam
- perforated
- washable
- moldable at approx. 130 °C
- approx. 30 Shore A, depending on colour and material thickness

PU = 1 sheet

Dimensions L x W x H	Colour	Item-No.
1100 x 1100 x 2 mm	white	111P52/2P
1100 x 1100 x 3 mm	white	111P52/3P
1100 x 1100 x 5 mm	white	111P52/5P
1100 x 1100 x 3 mm	caucasian	111P53/3P
1100 x 1100 x 4 mm	caucasian	111P53/4P
1100 x 1100 x 5 mm	caucasian	111P53/5P
1100 x 1100 x 2 mm	blue	111P72/2P
1100 x 1100 x 3 mm	blue	111P72/3P
1100 x 1100 x 4 mm	blue	111P72/4P
1100 x 1100 x 5 mm	blue	111P72/5P
1100 x 1100 x 2 mm	red	111P73/2P
1100 x 1100 x 3 mm	red	111P73/3P
1100 x 1100 x 4 mm	red	111P73/4P
1100 x 1100 x 2 mm	yellow	111P74/2P
1100 x 1100 x 4 mm	yellow	111P74/4P
1100 x 1100 x 5 mm	yellow	111P74/5P
1100 x 1100 x 2 mm	brown	111P75/2P
1100 x 1100 x 3 mm	brown	111P75/3P
1100 x 1100 x 4 mm	brown	111P75/4P
1100 x 1100 x 5 mm	brown	111P75/5P
1100 x 1100 x 3 mm	black	111P76/3P
1100 x 1100 x 4 mm	black	111P76/4P
1100 x 1100 x 5 mm	black	111P76/5P



Colorfoam

Material

- polyethylene foam

Application

- for cushioning of orthoses, soft inner sockets (soft sockets) and insole

Characteristics

- closed-cell PE-foam
- washable
- good restoring force
- moldable at approx. 120 °C
- approx. 35 Shore A, depending on colour and material thickness

PU = 1 sheet (1,6 sqm)



Please use our Forte Rapid Adhesive item-no. 118P13/... for the adhesion seam of the soft inner socket (soft socket).

Dimensions L x W x H	Colour	Item-No.
2100 x 1050 x 2 mm	white	110P70/2
2100 x 1050 x 3 mm	white	110P70/3
2100 x 1050 x 4 mm	white	110P70/4
2100 x 1050 x 5 mm	white	110P70/5
2100 x 1050 x 7 mm	white	110P70/7
2100 x 1050 x 10 mm	white	110P70/10
2100 x 1050 x 20 mm	white	110P70/20
2100 x 1050 x 2 mm	peach	110P71/2
2100 x 1050 x 3 mm	peach	110P71/3
2100 x 1050 x 4 mm	peach	110P71/4
2100 x 1050 x 5 mm	peach	110P71/5
2100 x 1050 x 7 mm	peach	110P71/7
1800 x 900 x 10 mm	peach	110P71/10
1800 x 900 x 20 mm	peach	110P71/20
2100 x 1050 x 2 mm	blue	110P72/2
2100 x 1050 x 3 mm	blue	110P72/3
2100 x 1050 x 4 mm	blue	110P72/4
2100 x 1050 x 5 mm	blue	110P72/5
1800 x 900 x 7 mm	blue	110P72/7
1800 x 900 x 10 mm	blue	110P72/10
2100 x 1050 x 2 mm	red	110P73/2
1800 x 900 x 3 mm	red	110P73/3
1800 x 900 x 4 mm	red	110P73/4
1800 x 900 x 5 mm	red	110P73/5
1800 x 900 x 7 mm	red	110P73/7
1800 x 900 x 10 mm	red	110P73/10
2100 x 1050 x 2 mm	yellow	110P74/2
2100 x 1050 x 3 mm	yellow	110P74/3
2100 x 1050 x 4 mm	yellow	110P74/4
2100 x 1050 x 5 mm	yellow	110P74/5
2100 x 1050 x 2 mm	green	110P80/2
2100 x 1050 x 3 mm	green	110P80/3
2100 x 1050 x 4 mm	green	110P80/4
2100 x 1050 x 5 mm	green	110P80/5

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Colorfoam

Material

- polyethylene foam

Application

- for cushionings for building orthoses as well as insoles

Characteristics

- closed-cell PE-foam
- washable
- good restoring force
- moldable at approx. 120 °C
- approx. 30 Shore A, depending on colour and material thickness

PU = 1 sheet (1,6 sqm) (110P76 – 110P85) PU = 1 sheet (2,2 sqm) (110P86)

Dimensions L x W x H	Colour	Item-No.
2100 x 1050 x 2 mm	black/yellow	110P76/2
2100 x 1050 x 3 mm	black/yellow	110P76/3
1800 x 900 x 4 mm	black/yellow	110P76/4
1800 x 900 x 2 mm	black/purple	110P77/2
2100 x 1050 x 3 mm	black/purple	110P77/3
2100 x 1050 x 4 mm	black/purple	110P77/4
1800 x 900 x 5 mm	black/purple	110P77/5
2100 x 1050 x 2 mm	black/blue	110P78/2
2100 x 1050 x 3 mm	black/blue	110P78/3
2100 x 1050 x 4 mm	black/blue	110P78/4
2100 x 1050 x 5 mm	black/blue	110P78/5
1800 x 900 x 2 mm	black/white	110P79/2
2100 x 1050 x 3 mm	black/white	110P79/3
2100 x 1050 x 4 mm	black/white	110P79/4
1800 x 900 x 5 mm	black/white	110P79/5
2100 x 1050 x 2 mm	pink/white	110P81/2
1800 x 900 x 3 mm	pink/white	110P81/3
1800 x 900 x 4 mm	pink/white	110P81/4
1800 x 900 x 5 mm	pink/white	110P81/5
1800 x 900 x 2 mm	purple/multicoloured	110P85/2
2100 x 1050 x 3 mm	purple/multicoloured	110P85/3
1800 x 900 x 4 mm	purple/multicoloured	110P85/4
2100 x 1050 x 5 mm	purple/multicoloured	110P85/5
2100 x 1050 x 2 mm	red/multicoloured	110P86/2
2100 x 1050 x 3 mm	red/multicoloured	110P86/3
2100 x 1050 x 4 mm	red/multicoloured	110P86/4
2100 x 1050 x 5 mm	red/multicoloured	110P86/5

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Colorfoam perforated

Material

- polyethylene foam

Application

- for cushionings for building orthoses as well as insoles

Characteristics

- closed-cell PE-foam
- perforated
- washable
- good restoring force
- moldable at approx. 120 °C
- approx. 35 Shore A, depending on colour and material thickness (single-coloured)
- approx. 30 Shore A, depending on colour and material thickness (multicolour)

PU = 1 sheet (1,6 sqm)

Dimensions L x W x H	Colour	Item-No.
2100 x 1050 x 2 mm	white	110P70/2P
2100 x 1050 x 3 mm	white	110P70/3P
1800 x 900 x 4 mm	white	110P70/4P
2100 x 1050 x 5 mm	white	110P70/5P
2100 x 1050 x 2 mm	caucasian	110P71/2P
2100 x 1050 x 3 mm	caucasian	110P71/3P
2100 x 1050 x 4 mm	caucasian	110P71/4P
1800 x 900 x 5 mm	caucasian	110P71/5P
2100 x 1050 x 2 mm	blue	110P72/2P
2100 x 1050 x 3 mm	blue	110P72/3P
1800 x 900 x 5 mm	blue	110P72/5P
2100 x 1050 x 2 mm	red	110P73/2P
1800 x 900 x 3 mm	red	110P73/3P
1800 x 900 x 5 mm	red	110P73/5P
1800 x 900 x 2 mm	yellow	110P74/2P
1800 x 900 x 3 mm	yellow	110P74/3P
1800 x 900 x 4 mm	yellow	110P74/4P
1800 x 900 x 5 mm	yellow	110P74/5P

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Streifyfoam

Material

- polyethylene foam

Application

- for cushioning of orthoses and firmer soft inner sockets (soft sockets)


Characteristics

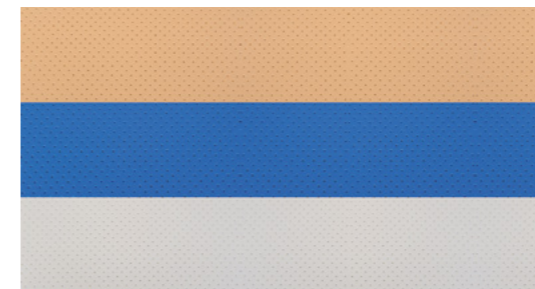
- closed-cell PE-foam
- washable
- good restoring force
- moldable at approx. 130-135 °C
- approx. 35-40 Shore A, depending on colour and material thickness

PU = 1 sheet (approx. 2-2,4 sqm depending on material thickness)

Dimensions L x W x H	Colour	Item-No.
1050 x 2100 x 2 mm	peach	110P90/2
1050 x 2100 x 3 mm	peach	110P90/3
1050 x 2100 x 4 mm	peach	110P90/4
1050 x 2100 x 5 mm	peach	110P90/5
1050 x 2100 x 7 mm	peach	110P90/7
1050 x 2100 x 10 mm	peach	110P90/10
1050 x 2100 x 2 mm	blue	110P91/2
1050 x 2100 x 3 mm	blue	110P91/3
1050 x 2100 x 4 mm	blue	110P91/4
1050 x 2100 x 5 mm	blue	110P91/5
1050 x 2100 x 7 mm	blue	110P91/7
1050 x 2100 x 10 mm	blue	110P91/10
1000 x 2000 x 2 mm	white	110P92/2
1000 x 2000 x 3 mm	white	110P92/3
1000 x 2000 x 4 mm	white	110P92/4
1000 x 2000 x 5 mm	white	110P92/5
1000 x 2000 x 7 mm	white	110P92/7
1000 x 2000 x 10 mm	white	110P92/10

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.

 Please use our Forte Rapid Adhesive item-no. 118P13/... for the adhesion seam of the soft inner socket (soft socket).



Streifyfoam perforated

Material

- polyethylene foam

Application

- for cushionings for building orthoses as well as insoles

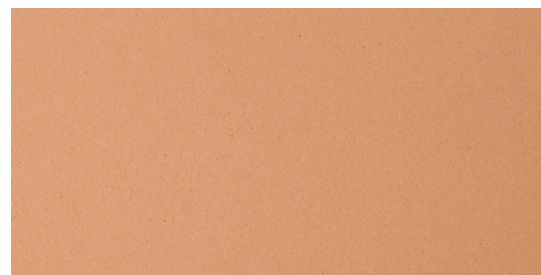
Characteristics

- closed-cell PE-foam
- perforated
- washable
- moldable at approx. 130-135 °C
- approx. 35-40 Shore A, depending on colour and material thickness

PU = 1 sheet (approx. 2-2,4 sqm depending on material thickness)

Dimensions L x W x H	Colour	Item-No.
1050 x 2100 x 2 mm	peach	110P90/2P
1050 x 2100 x 3 mm	peach	110P90/3P
1050 x 2100 x 4 mm	peach	110P90/4P
1050 x 2100 x 5 mm	peach	110P90/5P
1000 x 2000 x 2 mm	blue	110P91/2P
1000 x 2000 x 3 mm	blue	110P91/3P
1000 x 2000 x 4 mm	blue	110P91/4P
1000 x 2000 x 5 mm	blue	110P91/5P
1000 x 2000 x 2 mm	white	110P92/2P
1000 x 2000 x 3 mm	white	110P92/3P
1000 x 2000 x 4 mm	white	110P92/4P
1000 x 2000 x 5 mm	white	110P92/5P

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Nora-Lunairmed

Material

- EVA padding material
- colour: peach

Application

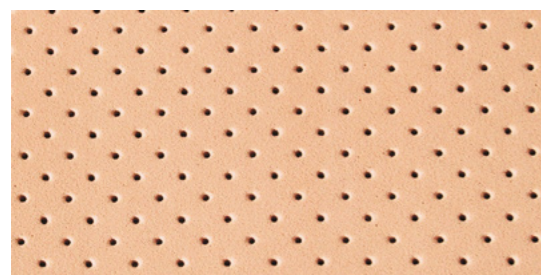
- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)
- particularly suitable for rheumatics and diabetics

Characteristics

- closed-cell EVA-foam
- very low density
- very soft
- very elastic
- washable
- moldable at approx. 110-130 °C
- approx. 16 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1.080 x 825 x 2 mm	111P101/H2
1.080 x 825 x 3 mm	111P101/H3
1.080 x 825 x 4 mm	111P101/H4
1.080 x 825 x 5 mm	111P101/H5
1.080 x 825 x 6 mm	111P101/H6
1.080 x 825 x 8 mm	111P101/H8
1.080 x 825 x 10 mm	111P101/H10
1.080 x 825 x 12 mm	111P101/H12
1.080 x 825 x 24 mm	111P101/H24



Nora-Lunairmed perforated

Material

- EVA padding material
- colour: peach

Application

- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)
- particularly suitable for rheumatics and diabetics

Characteristics

- closed-cell EVA-foam
- perforated
- very low density
- soft
- very elastic
- washable
- moldable at approx. 110-130 °C
- approx. 16 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1.080 x 825 x 3 mm	111P101/H3P
1.080 x 825 x 6 mm	111P101/H6P



Nora-Lunairflex

Material

- EVA padding material
- colour: peach

Application

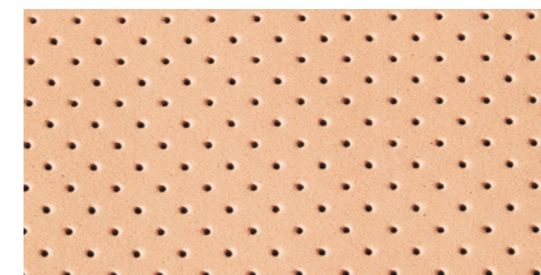
- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)

Characteristics

- closed-cell EVA-foam
- very low density
- soft
- very elastic
- washable
- moldable at approx. 110-130 °C
- approx. 22 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1.200 x 750 x 3 mm	111P106/H3
1.200 x 750 x 4 mm	111P106/H4
1.200 x 750 x 5 mm	111P106/H5
1.200 x 750 x 6 mm	111P106/H6
1.200 x 750 x 8 mm	111P106/H8
1.200 x 750 x 12 mm	111P106/H12
1.200 x 750 x 24 mm	111P106/H24



Nora-Lunairflex perforated

Material

- EVA padding material
- colour: peach

Application

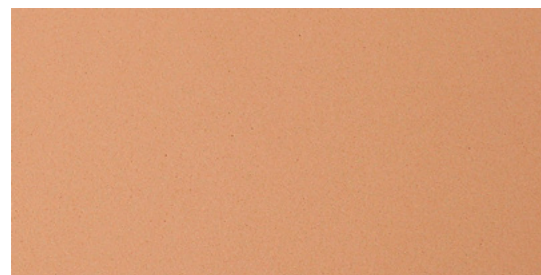
- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)

Characteristics

- closed-cell EVA-foam
- perforated
- very low density
- soft
- very elastic
- washable
- moldable at approx. 110-130 °C
- approx. 22 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1200 x 750 x 3 mm	111P106/H3P
1200 x 750 x 6 mm	111P106/H6P



Nora-Lunalastik

Material

- EVA padding material
- colour: peach

Application

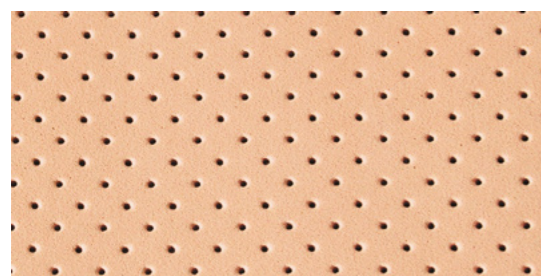
- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)

Characteristics

- closed-cell EVA-foam
- very low density
- soft
- excellent tear resistance
- washable
- very high restoring force
- moldable at approx. 110-130 °C
- approx. 25 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1150 x 750 x 3 mm	111P103/H3
1150 x 750 x 4 mm	111P103/H4
1150 x 750 x 5 mm	111P103/H5
1150 x 750 x 6 mm	111P103/H6
1150 x 750 x 8 mm	111P103/H8



Nora-Lunalastik perforated

Material

- EVA padding material
- colour: peach

Application

- padding material, especially suitable for manufacturing of inner shoes and for embeddings (customised orthopaedic shoes)

Characteristics

- closed-cell EVA-foam
- perforated
- very low density
- soft
- excellent tear resistance
- washable
- very high restoring force
- moldable at approx. 110-130 °C
- approx. 25 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1150 x 750 x 3 mm	111P103/H3P
1150 x 750 x 6 mm	111P103/H6P



Nora-Lunasoft SLW

Material

- EVA-padding and layer material
- colour: peach

Application

- construction- and cushioning material for manufacturing of embeddings in orthopaedic shoes

Characteristics

- closed-cell EVA-foam
- very light-weight
- very soft
- smooth surface
- medium density
- shape retaining
- washable
- moldable at approx. 120-170 °C
- approx. 30 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1150 x 750 x 2 mm	111P104/H2
1150 x 750 x 3 mm	111P104/H3
1150 x 750 x 4 mm	111P104/H4
1150 x 750 x 5 mm	111P104/H5
1150 x 750 x 6 mm	111P104/H6
1150 x 750 x 8 mm	111P104/H8
1150 x 750 x 10 mm	111P104/H10
1150 x 750 x 12 mm	111P104/H12
1150 x 750 x 20 mm	111P104/H20

 The quoted temperatures vary depending on material thickness and density.

Nora-Lunasoft SL



Material

- EVA-padding and layer material
- colour: peach

Application


- construction- and cushioning material for manufacturing of embeddings in orthopaedic shoes

Characteristics

- closed-cell EVA-foam
- very light-weight
- smooth surface
- medium-firm density
- shape retaining
- washable
- moldable at approx. 120-170 °C
- approx. 40 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1140 x 740 x 2 mm	111P105/H2
1140 x 740 x 3 mm	111P105/H3
1140 x 740 x 4 mm	111P105/H4
1140 x 740 x 5 mm	111P105/H5
1140 x 740 x 6 mm	111P105/H6
1140 x 740 x 8 mm	111P105/H8
1140 x 740 x 10 mm	111P105/H10
1140 x 740 x 12 mm	111P105/H12

 The quoted temperatures vary depending on material thickness and density.

Nora-Lunasoft AL



Material

- EVA-padding and layer material
- colour: peach

Application


- construction- and cushioning material for manufacturing of embeddings in orthopaedic shoes
- suitable as stabilising shape element for insoles (e.g. to support the hindfoot)

Characteristics

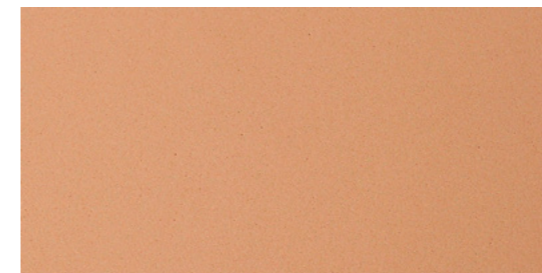
- closed-cell EVA-foam
- very light-weight and stable
- higher density
- washable
- moldable at approx. 120-170 °C
- approx. 50 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
920 x 560 x 6 mm	111P109/6
920 x 560 x 8 mm	111P109/8

 The quoted temperatures vary depending on material thickness and density.

Nora-Lunacell



Material

- EVA-construction- and stabilisation material
- colour: peach

Application


- construction- and correctional tasks for stabilising elements in embeddings in orthopaedic shoes

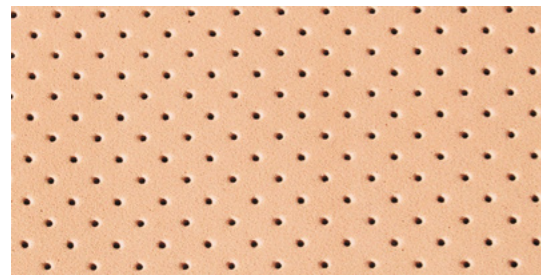
Characteristics

- closed-cell EVA-foam
- impact resistant
- tear- and scratch proof
- extremely stable
- high density
- washable
- moldable at approx. 120-170 °C
- approx. 68 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1080 x 850 x 1,5 mm	111P110
850 x 540 x 2,0 mm	111P110/2

 The quoted temperatures vary depending on material thickness and density.



Nora-Lunacell perforated

Material

- EVA-construction- and stabilisation material
- colour: peach

Application

- construction- and correctional tasks for stabilising elements in embeddings in orthopaedic shoes

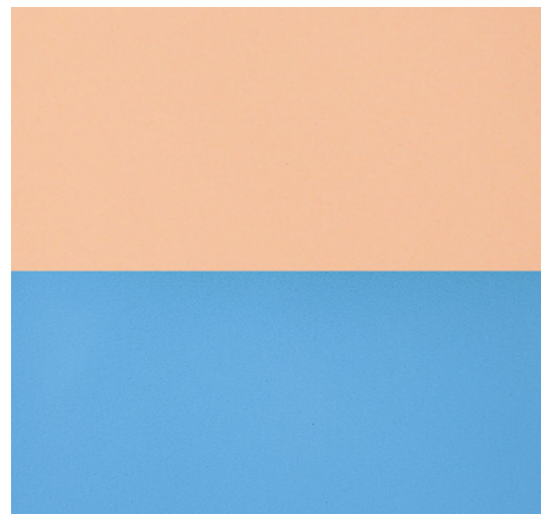
Characteristics

- closed-cell EVA-foam
- perforated
- impact resistant
- tear- and scratch proof
- extremely stable
- high density
- washable
- moldable at approx. 120-170 °C
- approx. 68 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1080 x 850 x 1,5 mm	111P111

 The quoted temperatures vary depending on material thickness and density.



PPT

Material

- polyurethane (PU)
- colour: peach

Application

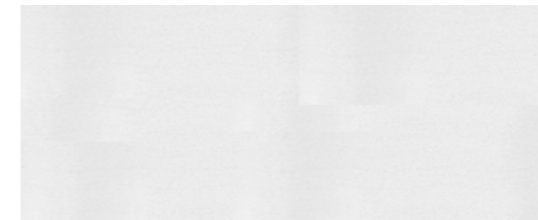
- classic padding material for embeddings for sensitive body areas (e.g. for insoles)

Characteristics

- very soft
- brushed on one side
- washable on one side
- very high restoring force
- permanently resilient
- not thermoplastic moldable
- approx. 13 Shore A

PU = 1 sheet (1 sqm)

Material Thickness	Item-No.
1,5 mm	110P50/15
3 mm	110P50/30
6 mm	110P50/60
9 mm	110P50/90



Pryx

Material

- EVA padding material
- colour: white

Application

- padding material, suitable for manufacturing insoles and embeddings

Properties

- closed-cell EVA-foam
- medium density
- very good deep drawable
- mouldable at approx. 150-180 °C
- approx. 45 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
900 x 780 x 1 mm	111P23/1
900 x 780 x 3 mm	111P23/3
900 x 780 x 6 mm	111P23/6

other thicknesses and colours are available upon request!



Cellular Caoutchouc

Material

- cellular rubber
- colour: grey

Application

- suitable for paddings of any kind

Characteristics

- without coating on both sides
- cell-closed
- not thermoplastic moldable
- approx. 10-15 Shore A

PU = 1 sheet

L x W x Thickness	Item-No.
1000 x 1000 x 4 mm	135P9/4
1000 x 1000 x 6 mm	135P9/6



PE foam

Material

- polyethylene
- colour: off-white
- density approx. 33 kg/m³
- elongation at break 120 %

Application


- suitable for manufacturing positioning supports (e.g. seat shells)

Characteristics

- expanded PE-foam
- cell-closed
- light-weight
- shape retaining
- shock absorbing
- washable
- incontinence resistant
- odorless

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 10 mm	110P67/10
2000 x 1000 x 20 mm	110P67/20
2000 x 1000 x 30 mm	110P67/30
2000 x 1000 x 40 mm	110P67/40
2000 x 1000 x 50 mm	110P67/50
2000 x 1000 x 100 mm	110P67/100

 For suitable forging tools, please see our catalogue „Machines & Tools“, chapter „Tools“.



Orthoprene (Neoprene)

Material

- foamed polychloroprene
- standard type
- textile lamination on both sides (nylon / polyester jersey)

Application

- padding material

Characteristics

- padding effect
- elastic
- heat-insulating
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)
- not thermoplastic moldable
- approx. 10 Shore A

Following types are available upon request:


- without textile lamination
- with textile lamination (one-sided)
- with velour lamination (compatible with hook fasteners) available in black, navy-blue, nature and white (against surcharge)

When ordering please indicate desired lamination!

PU = 1 sheet

Dimensions L x W x H	Item-No.
2100 x 1350 x 2 mm	114P1/2
2100 x 1350 x 3 mm	114P1/3
2100 x 1350 x 4 mm	114P1/4
2100 x 1350 x 5 mm	114P1/5
2100 x 1350 x 6 mm	114P1/6
2100 x 1350 x 7 mm	114P1/7
2100 x 1350 x 10 mm	114P1/10

Due to the numerous combination possibilities, Orthoprene is not in stock and the delivery time is approx. 14 days.

 Foamed Orthoprene (Neoprene) is a foamed rubber and stands out especially for its extraordinary insulating characteristics (e. g. diving suits).



Moltopren

Material

- PU soft foam
- density: 40 kg/m³
- colour: white

Application

- excellently suitable for paddings and positioning supports with large surfaces

Characteristics

- open-cell PU-foam
- soft

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1300 x 5 mm	111P1/5
2000 x 1300 x 10 mm	111P1/10
2000 x 1300 x 20 mm	111P1/20
2000 x 1000 x 25 mm	111P1/25
2000 x 1000 x 30 mm	111P1/30
2000 x 1000 x 40 mm	111P1/40
2000 x 1000 x 50 mm	111P1/50
2000 x 1000 x 100 mm	111P1/100



Memory Foam, Density 60

Material

- PU foam
- density: 60 kg/m³
- compression hardness: 6,0 kPa
- colour: yellow

Application

- suitable for decubitus prophylaxis for seat cushions and soft paddings for positioning supports

Characteristics

- open-cell PU-foam with specific viscoelastic characteristics

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 10 mm	111P2/10
2000 x 1000 x 20 mm	111P2/20
2000 x 1000 x 30 mm	111P2/30
2000 x 1000 x 50 mm	111P2/50
2000 x 1000 x 100 mm	111P2/100



Memory Foam, Density 60

Material

- PU foam
- density: 60 kg/m³
- compression hardness: 12,0 kPa
- colour: pink

Application

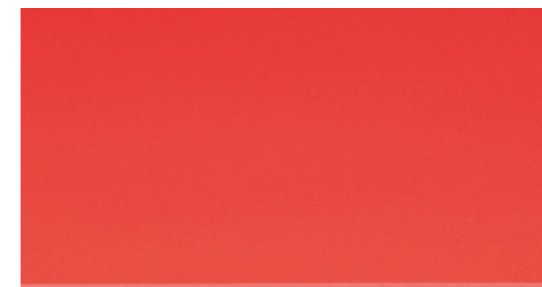
- suitable for decubitus prophylaxis for seat cushions and soft paddings for positioning supports

Characteristics

- open-cell PU-foam with specific viscoelastic characteristics
- especially high restoring force

PU = 1 sheet (2 sqm)

Dimensions L x W x H	Item-No.
2000 x 1000 x 10 mm	111P3/10
2000 x 1000 x 20 mm	111P3/20
2000 x 1000 x 30 mm	111P3/30
2000 x 1000 x 50 mm	111P3/50
2000 x 1000 x 100 mm	111P3/100



ST Diabetic-Material

Material

- PU-soft-foam
- colour: red

Application

- padding material for embedding of pressure-sensitive diabetic feet on insoles

Characteristics

- closed-cell PU-foam
- soft
- surge- and pressure-absorbing
- high but deferred restoring force
- good bonding characteristics
- plain on both sides
- approx. 10 Shore A

PU = 1 sheet

Dimensions L x W x H	Item-No.
1370 x 1000 x 3 mm	110P65/3
1370 x 1000 x 5 mm	110P65/5
1370 x 1000 x 6 mm	110P65/6



Padding Felt

Material

- 60 % wool and 40 % viscose
- colour: mottled grey

Application

- natural padding material


Properties

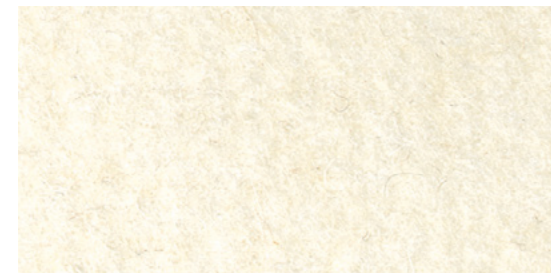
- soft
- loose
- skiveable
- skin-friendly
- breathable

PU = running metre

Width x Thickness	Weight	Item-No.
approx. 1800 x 3 mm	approx. 270 g/m ²	140P3
approx. 1800 x 4 mm	approx. 350 g/m ²	140P4
approx. 1800 x 5 mm	approx. 450 g/m ²	140P5
approx. 1800 x 6 mm	approx. 540 g/m ²	140P6
approx. 1800 x 10 mm	approx. 890 g/m ²	140P10

Slight colour deviations are possible for technical production reasons.

 Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.



Padding Felt

Material

- 66 % viscose and 34 % wool
- off-white

Application

- for cushioning


Properties

- soft
- loose
- skiveable
- skin-friendly
- breathable

PU = running metre

Width x Thickness	weight	Item-No.
approx. 1800 x 3 mm	approx. 420 g/m ²	140P103
approx. 1800 x 4 mm	approx. 560 g/m ²	140P104
approx. 1800 x 5 mm	approx. 840 g/m ²	140P105

Slight colour deviations are possible for technical production reasons.

 Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.



Padding Felt

Material

- 80 % wool and 20 % viscose
- colour: white

Application

- suitable for natural cushioning


Properties

- tight and sealed quality
- skiveable
- skin-friendly
- breathable

PU = running metre

Width x Thickness	Weight	Item-No.
approx. 1800 x 3 mm	approx. 600 g/m ²	141P103
approx. 1860 x 5 mm	approx. 1100 g/m ²	141P105

Slight colour deviations are possible for technical production reasons.

 Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.



Felt Cloth/Garnishing Felt

Material

- wool-viscose-mix

Application

- for thin coloured trimmings and linings

Properties

- tight and sealed quality
- skiveable
- skin-friendly
- breathable

PU = running metre

Width x Thickness	Colour	Weight	Item-No.
approx. 1800 x 1 mm	blue	approx. 180 g/m ²	142P5/B
approx. 1800 x 1 mm	yellow	approx. 180 g/m ²	142P5/G
approx. 1800 x 1 mm	red	approx. 180 g/m ²	142P5/R
approx. 1800 x 1 mm	white	approx. 230 g/m ²	142P5/W
approx. 1800 x 1 mm	grey	approx. 220 g/m ²	142P11
approx. 1800 x 1 mm	peach	approx. 220 g/m ²	142P45
approx. 1800 x 1,5 mm	white	approx. 300 g/m ²	142P7

Slight colour deviations are possible for technical production reasons.

Cushioning Material



Felt Cloth/Garnishing Felt, self-adhesive

Material

- 80 % wool and 20 % viscose (item-no. 142P4) resp. 40 % wool and 60 % viscose (item-no. 142P3)
- adhesive coating on the backside

Application

- for thin cushioning and linings

Properties

- tight and sealed quality
- skiveable
- skin-friendly
- breathable

PU = running metre

Dimensions Width x Thickness	Colour	Weight	Item-No.
1000 x 2 mm	raw white	approx. 700 g/m ²	142P4/2
850 x 3 mm	raw white	approx. 800 g/m ²	142P4/3
900 x 4 mm	white	approx. 760 g/m ²	142P3/4


Slight colour deviations are possible for technical production reasons.

Metals



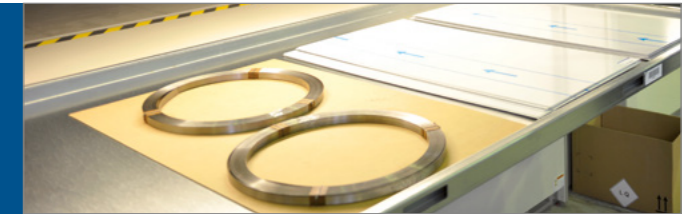
Metals

In modern orthopaedic technology, metals are used for the manufacturing of modular components, splints and joints for orthoses, or for a multitude of constructions which have to be bent, hammered, bolted or riveted. The decisive factors of metals are good stress characteristics and the simple way of processing.

 For approx. 10,000 years man has been using metals, but only 6,000 years ago man started to manufacture metals on the basis of their compounds – the ores



A variety of products made of steel aluminum and sheet metal are depicted on the following pages.



Metals are characterized by special hardness, tensile strength, breaking strength, thermal conductivity and electric conductivity. However, the combination and mostly insignificant admixtures of various metal alloys confer specific and desirable properties to materials, household and professional tools and construction materials. Lightness, chemical resistance and special hardness only are some of the properties to be emphasized. Whether in the industry or in trade, the processing of metal as part of the product engineering is still omnipresent and indispensable. A classification is made according to machining such as drilling, turning, milling, sanding, sawing, die threading, engraving, punching and according to non-cutting procedures such as forging, bending, rolling, drawing, press forming, hallmarking, hammering, molding etc.

Steel

- Characterized by its high stressability and its specific reliability
- Specific properties can be adapted by alloyage, heat treatment or by strain hardening

Aluminum

- Characterized by its low weight
- Very resistant to corrosion
- Malleable, consistent and very reactive

Non-ferrous metals


- Such as brass sheet metal/Durana sheet metal are alloys of copper, zinc, iron, lead, etc. that are ideally suited for orthopaedic technology

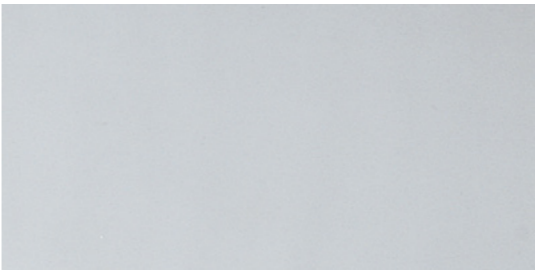


Dur-Aluminum

- Material**
- special orthopaedic quality
- Application**
- for manufacturing of insoles, braces and all kinds of reinforcement strips
- Characteristics**
- suitable for hammering
 - approx. 400 N/mm² tensile strength

Dimensions L x W x Thickness	Weight	PU	Item-No.
995 x 495 x 1,00 mm	2,8 kg/m ²	1,4 kg	102P1/100
995 x 495 x 1,50 mm	4,2 kg/m ²	2,1 kg	102P1/150
995 x 495 x 2,00 mm	5,6 kg/m ²	2,8 kg	102P1/200
995 x 495 x 2,50 mm	7,0 kg/m ²	3,5 kg	102P1/250

 Please mind the correct direction of rolling.



Stainless Steel Sheet

- Material**
- V2A steel
- Application**
- for manufacturing of stable and resilient insoles and brace soles
- Characteristics**
- approx. 500 – 700 N/mm² tensile strength

L x W x Thickness	Weight	PU	Item-No.
1000 x 500 x 1,00 mm	8,0 kg/m ²	4,0 kg	100P2/100
1000 x 500 x 1,25 mm	10,0 kg/m ²	5,0 kg	100P2/125
1000 x 500 x 1,50 mm	12,0 kg/m ²	6,0 kg	100P2/150
1000 x 500 x 2,00 mm	16,0 kg/m ²	8,0 kg	100P2/200
1000 x 500 x 2,50 mm	20,0 kg/m ²	10,0 kg	100P2/250



Brass Sheet/Durana Sheet

Material

- special brass alloy for orthopaedic technology

Application

- for manufacturing of sole sheets for classic steel-leather-KAFOS

Characteristics

- suitable for hammering
- semi-rigid
- approx. 440 N/mm² tensile strength

L x W x Thickness	Weight	PU	Item-No.
1000 x 600 x 1,50 mm	12,6 kg/m ²	7,6 kg	102P2/150
1000 x 500 x 1,75 mm	14,7 kg/m ²	7,35 kg	102P2/175
1000 x 600 x 2,00 mm	16,8 kg/m ²	10,0 kg	102P2/200



Orthopaedic Flat Steel/Wrought Iron

Material

- steel blank

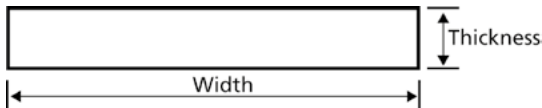
Application

- for manufacturing of reinforcement bars and constructions

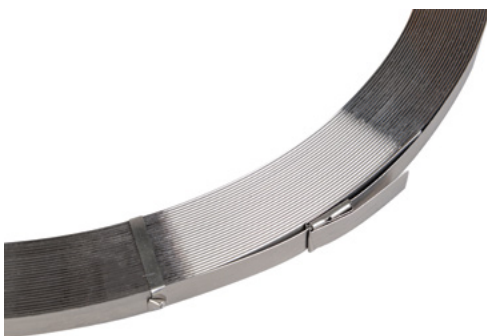
Characteristics

- suitable for hammering
- bendable
- especially suitable for cold forming

PU = 1 bar



L x W x Thickness	Weight	Item-No.
1500 x 15 x 2 mm	235 g/m	101P1/215
1500 x 20 x 2 mm	315 g/m	101P1/220
1500 x 18 x 3 mm	425 g/m	101P1/318
1500 x 20 x 4 mm	630 g/m	101P1/420



Spring Band Steel

Material

- highly alloyed steel
- hardened and polished
- with rounded edges

Application

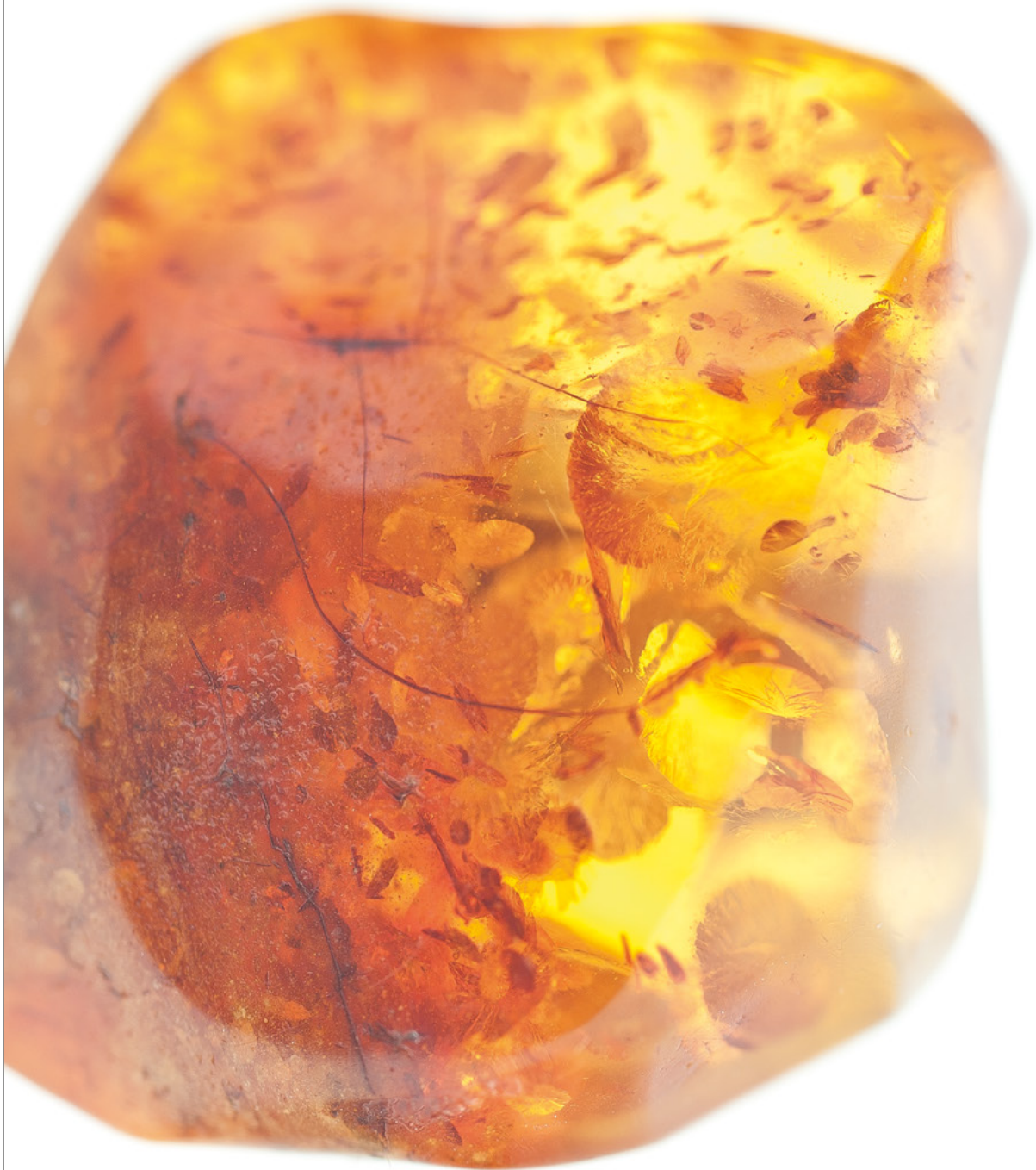
- for the production of rigidus springs, peroneus springs („Heidelberg angle“) and corset construction

Characteristics

- approx. 1570 N/mm²
- approx. 177g/m
- 1 ring approx. 6-8 kg
- permanent elastic tensile strength

Dimensions L x H	Item-No.
15 x 1,5 mm	101P5/15A

Laminating Resins



Laminating Resins

Orthopaedic technology offers a multitude of possibilities to apply laminating resins, especially when producing fiber-reinforced components by means of the laminating technology. In a very specific way, the skilled trades benefit from materials research in aeronautical engineering and motoring technology because modern resins ensure state of the art solutions that offer a high strength and extremely low weight.

Used materials

- Acrylic resins (e. g. sealing resin item-no. 112P115 resp. 112P15 or laminating resin item-no. 112P120 resp. 112P20)
- Epoxy resins (e. g. EpoxiPure item-no. 112P80 or item-no. 112P81)



Due to their excellent wetting characteristics, acrylic- and epoxy-resins are especially suitable for laminating with carbon fiber materials. Epoxy-resin, however, is meanwhile more often used in orthopaedic technology, although it is a bit more demanding during processing than acrylic resin.

Please pay attention to the safety data sheets of our laminating resins. You can request them by contacting us at any time.

High-quality acrylic resins are characterised by

- Very good wettability and rinsing of the individual filament fibers
- Resistance to aging
- Thermoplastic properties of the cured components (provided that the arrangement of the reinforcements allow these properties)
- Cutaneous tolerance
- Simplifies the processing by a controllable reaction sequence via addition of hardener

Laminating Resins

Characteristics and processing of acrylic- and epoxy resins

	Acrylic resins	Epoxy resins
Mixability solid/flexible	Yes, but only acrylic resins among themselves	No
Curing	For all acrylic resins, add 1 – 3 % of hardening agent in powder or pasty form. The amount of hardener influences the reaction rate	Firm or flexible epoxy-resins are mixed with liquid hardener in exact mixture ratio (e.g. EpoxiPure 100 : 40) Full hardening is achieved by adding temperature.
Solidity	Resistant to aging, depending on type glasshard, hard or soft	High, resistant to aging
Thermoplastics	Yes	No, duroplast
Decrease in reaction	Medium	Very low
Solvent-resistant	Good	Very good
Dimensional control	The harder the formulation, the higher the dimensional control	Yes, also at higher temperatures
Field of application	Any type of prostheses and orthoses	Any type of prostheses and orthoses
Others	Sealing resin is the archetype of all acrylic resins: 80:20 = 80 % sealing resin and 20 % soft acrylic resin. Bonds very well with many various materials	Very good bonding with many metals and plastics, very good wetting of the individual filament fibers
Exact mixing ratio	Acrylic resins forgive minor inaccuracies	Inaccuracies will hardly be forgiven, Min. mixing time: 2 – 3 minutes
Further products	Acrylic spatula and Siegelharz compact adhesive	„UHU plus endfest“ (epoxy adhesive), Araldite adhesives

General processing recommendations

- Always use clean mixing cups and wooden spatulas
- Pigment paste must be added prior to hardening agent
- Always stir in dye paste thoroughly. The colour “black” will affect the physical characteristics.
- Curing will start at those locations having the highest resin concentration
- Be sure that the plaster cast model is dry before insulating it with PVA-foil
- Too much hardening agent in acrylic resins reduces the flow characteristics of pre-formulated resins
- If the hardening process for acrylic resins has been initiated too rapidly, poor wetting of the fibers may be the result and subsequently non-hardened sub-areas (“islands”) may occur.

Mixing proportion always in ratio of the weight

Sealing resin	Laminating resin 80:20	Laminating resin C	Casting resin 103E
100 parts of resin	100 parts of resin	100 parts of resin	100 parts of resin
1 – 3 parts of hardener	1 – 3 parts of hardener	1 – 3 parts of hardener	1 – 3 parts of hardener
Add 2-3 % of Streifeneder pigment paste max. if required			

EpoxiPure EP-Resin*
100 parts resin
40 parts hardener
Pot life approx. 45 minutes
If desired, add max. 1 – 10 % GelCoat pigment paste

EP resin solid/flexible (Araldite D casting resin)
100 parts of resin
20 parts of curing agent
Curing after approx. 5 hours
Add 1 – 2 % of Streifeneder pigment paste max. if required

EP resin stiff/rigid (Versamid casting resin)
40 parts of Versamid casting resin
60 parts of Versamid D casting resin
10 parts of curing agent
Curing after approx. 5 hours
Add 1 – 2 % of Streifeneder pigment paste max. if required

*For optimal results with EpoxiPure (item-no. 112P80 / 112P81), follow our processing tips.

Impacts on the reaction times by

- Mixing of various acrylic resins
- Type of reinforcement
(consider modification of amount of hardening agent especially when using many carbon fibers)
- Room temperature too high (exceeding 25 °C)
- Room temperature too low (below 15 °C)
- Use of carbon fiber materials accelerate the reaction
- Too much or not enough hardening powder
- Admixture of Streifeneder pigment paste



The mixing ratios of epoxy resins (EP resins) must always be strictly adhered to!



Black dye paste has negative impacts on curing because of the high soot share.

Acrylic resins may only be post-formulated by using 10 – 15 % thinner max.



Streifeneder Lamination Resin

Material

- acrylic resin (PMMA) consisting of 80 % hard and 20 % soft resin
- Streifeneder brand


Application

- classic lamination resin for manufacturing of prosthetic sockets and orthoses

Properties

- easy to handle
- quick results
- thermoplastic

Content	Item-No.
900 g	112P120/1
4,9 kg	112P120/5
25,0 kg	112P120/25

 Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Lamination Resin 80:20

Material

- acrylic resin (PMMA) consisting of 80 % hard and 20 % soft resin
- brand product


Application

- classic lamination resin for manufacturing of prosthetic sockets and orthoses

Properties

- easy to handle
- quick results
- thermoplastic

Content	Item-No.
900 g	112P20/1
4,6 kg	112P20/5

 Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Streifeneder Lamination Resin, flexible



- Material**
- soft acrylic resin
 - Streifeneder brand

- Application**
- for manufacturing of soft partial or complete orthoses or prostheses

- Properties**
- for flexible laminates
 - thermoplastic
 - easy to handle

Content	Item-No.
900 g	112P114/1
4,9 kg	112P114/5

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Lamination Resin 103E



- Material**
- soft acrylic resin
 - brand product

- Application**
- for manufacturing of soft partial or complete orthoses or prostheses

- Properties**
- for flexible laminates
 - thermoplastic
 - easy to handle

Content	Item-No.
900 g	112P14/1
4,6 kg	112P14/5

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Streifeneder Lamination Resin C



- Material**
- soft acrylic resin
 - Streifeneder brand

- Application**
- special formula for processing C-fibres

- Properties**
- low viscosity
 - for better and easier flow around the reinforcement fibre
 - suitable for stiff and firm constructions
 - thermoplastic

Content	Item-No.
900 g	112P122/1
4,9 kg	112P122/5
25,0 kg	112P122/25

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Lamination Resin C



- Material**
- soft acrylic resin
 - brand product

- Application**
- special formula for processing C-fibres

- Properties**
- low viscosity
 - for better and easier flow around the reinforcement fibre
 - suitable for stiff and firm constructions
 - thermoplastic

Content	Item-No.
900 g	112P22/1
4,6 kg	112P22/5
25,0 kg	112P22/25

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Streifeneder Sealing Resin



- Material**
- acrylic resin
 - Streifeneder brand

- Application**
- for sealing, reinforcing and bonding

- Properties**
- quick results
 - easy to handle
 - high adhesion power
 - very hard

Content	Item-No.
900 g	112P115/1
4,9 kg	112P115/5
25,0 kg	112P115/25

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Sealing Resin



- Material**
- acrylic resin
 - brand product

- Application**
- for sealing, reinforcing and bonding

- Properties**
- quick results
 - easy to handle
 - high adhesion power
 - very hard

Content	Item-No.
900 g	112P15/1
4,6 kg	112P15/5

Use this item only with our hardener item-no. 112P33 and our colour paste item-no. 112P49.



Hardener Paste



- Material**
- hardener paste

- Application**
- for Streifeneder acrylic resins, sealing resin compact glue and light putty

- Characteristics**
- create a light and homogenous mix, especially with pasty putties and adhesives

Content	Item-No.
50 g	112P17



Hardener Powder



- Material**
- hardener powder

- Application**
- for Streifeneder acrylic resins, sealing resin compact glue and light putty

- Properties**
- creates a light and homogenous mix, especially with liquid resins and adhesives
 - incl. measuring spoon

Content	Item-No.
30 g	112P33/03
150 g	112P33/15
500 g	112P33/50

Measuring Spoon



- Material**
- polystyrene
 - colour: white

- Application**
- for measuring hardener powder item-no. 112P33

- Characteristics**
- without graduation

PU = 10 pcs

Filling quantity	Item-No.
1,75 ml	164P5



Microballoon

Material

- glass hollow spheres
- colour: white

Application

- filler material (max. 30 %)

Characteristics

- very fine and light
- provides smooth laminate surfaces
- pressure resistant

Content	Item-No.
1,0 kg	112P40/1



Atlas Thinner for Acrylic Resins

Material

- solvent

Application

- viscosity adjustment

Characteristics

- for Streifeneder-resins

Content	Item-No.
800 g	112P13/1



EpoxiPure Lamination Resin

Material

- epoxy resin

Application

- for stable and thin-walled C-fibre constructions

Characteristics

- suitable for overlamination
- solvent-free
- duroplast
- low viscosity
- optimal saturation of the reinforcement layers

Mixing ratio

- 100 parts EpoxiPure lamination resin item-no. 112P80
- 40 parts EpoxiPure hardener item-no. 112P81

Content	Item-No.
1,0 kg	112P80/1
5,0 kg	112P80/5



EpoxiPure Hardener

Material

- liquid hardener for EpoxiPure lamination resin item-no. 112P80

Characteristics

- transparent
- phenol-free
- low odour

Mixing ratio

- 100 parts EpoxiPure lamination resin item-no. 112P80
- 40 parts EpoxiPure hardener item-no. 112P81

Content	Bestell-Nr.
400 g	112P81/04
2,0 kg	112P81/2



Glass Fibre Filler Material

Material

- glass fibre flakes

Application

- densifier for sealing resin, can be used in combination with sealing resin as filler for metal parts like 3- or 4-prawn ancors


Characteristics

- provides a well grindable and durable mixture

Mixing ratio

- max. 50 g filler item-no. 112P41
- 50 g sealing resin item-no. 112P15
- 3 % hardener paste item-no. 112P33 or 112P17

Content	Item-No.
1,0 kg	112P41/1

 The higher the content of fibres of item-no. 112P41, the denser the spackle.



Pigment Paste

Material

- pasty colouring pigments

Application

- for colouring epoxy and acrylic resins

Properties

- high-yield
- easy to mix



Content	Colour	Item-No.
250 g	blue	112P49/B
250 g	brown	112P49/BR
250 g	yellow	112P49/GB
250 g	green	112P49/GR
250 g	peach	112P49/H
250 g	magenta	112P49/M
250 g	orange	112P49/O
250 g	red	112P49/R
250 g	black	112P49/S
250 g	white	112P49/W



Glass Fibre Putty

Material

- glass fibre putty based on polyester, incl. spatula and hardener paste (40 g)

Application

- for reinforcing, adjusting and filling
- well suitable for embedding socket adapters

Characteristics

- very durable
- well grindable after hardening
- quick processing



Content	Item-No.
1,3 kg	112P31



Acrylic-Putty

Material

- Putty on acrylic base

Application

- for embedding adapters, metal bars at wooden or laminated sockets
- mix with max. 3 % hardener Item-no. 112P17 or 112P33

Properties

- pressure-resistant
- well grindable
- easy and quick processing



Content	Item-No.
1,0 kg	112P39



Light Putty

Material

- Putty on polyester base

Application

- to narrow and adjust e.g. prosthetic sockets
- mix with max. 3 % hardener Item-no. 112P17 or 112P33

Properties

- well grindable
- easy and quick processing
- fluffy



Content	Item-No.
1,0 kg	112P35/1



High Performance Maintenance Spray

Material

- silicone-free, organic maintenance oil
- aerosol

Application

- for moving components

Characteristics

- lubricates
- cleans
- penetrates
- displaces moisture
- protects against corrosion



Content	Item-No.
500 ml	117P22



Multipurpose Grease

Material

- high performance grease

Application

- for insulation of metal parts, joints and bars during resin works

Characteristics

- water resistant
- acid free
- range of application from -30 °C to +120 °C

PU = 1 tin

Content	Item-No.
1,0 kg	60C50



Special Lubricant

Material

- Molykote-Paste DX
- Brand product
- colour: white

Application

- for lubrication of accessible toothed wheels, joint axes and ball bearings

Properties

- soft
- for extreme pressure- and longterm lubrications

Content	PU	Item-No.
550 g	1 tube	112P37/50

picture similar



Silicone Spray

Material

- aerosol on silicone oil base

Application

- separating agent for insulation
- maintains and lubricates

Characteristics

- colourless
- fine atomisation
- leaves a gliding film

Content	Item-No.
400 ml	116P11



Multi Purpose Lubricant Spray

Material

- multi-function oil spray

Application

- eliminates squealing noises
- displaces moisture
- cleans and protects
- unfastens rusted parts
- unfastens tight mechanical parts

Characteristics

- leaves a maintaining oil film

Content	Item-No.
300 ml	117P20/30



Spray-On Adhesive

Material

- aerosol glue

Application

- suitable for all materials and reinforcement tasks with carbon or glass fibre
- Characteristics

good emptying characteristics

- fine atomisation
- setting time: 10-50 minutes after spraying on
- drying time: 10 minutes

Content	Item-No.
500 ml	118P28



PTFE Spray

Material

- aerosol on polytetrafluorethylene base

Application

- lubrication

Characteristics

- grease-free

Content	Item-No.
400 ml	119P24





Talcum Powder

Material

- talcum

Application

- filler
- mineral sliding and release agent

Content	Item-No.
1,0 kg	113P6



Wooden Spatula

Material

- wood

Application

- multi-purpose putty to mix liquid and pasty compounds

PU = 100 pieces

L x W x Thickness	Item-No.
255 x 16 x 3,5 mm	164P9



Mixing Cup

Material

- polypropylene

Application

- multi-purpose cup

Characteristics

- with scale

PU = 20 pcs and 100 pcs

Filling quantity	Item-No.
200 ml	164P6/180
400 ml	164P6/500



Vulkollan Elastic Strap

Material

- polyester-urethane-rubber

Application

- for tying and fixation

Characteristics

- including fastening button item-no. 119P31

Length x Width	Item-No.
500 x 15 mm	119P30



Fastening Button

Material

- brass

Application

- for fixation of the Vulkollan elastic strap item-no. 119P30

PU = 1 piece

Item-No.
119P31



Perlon Stockinette

Material

- polyamide (PA)
- colour: white

Application

- for reinforcements in laminate layers

Characteristics

- elastic
- create a fine and smooth surface

width	sales unit	Length per roll	Item-No.
20 mm	0.5 kg	93.0 m	95P6/2
30 mm	0.5 kg	80.0 m	95P6/3
40 mm	0.5 kg	45.4 m	95P6/4
60 mm	0.5 kg	27.7 m	95P6/6
80 mm	0.5 kg	20.8 m	95P6/8
100 mm	1.0 kg	37.0 m	95P6/10
120 mm	1.0 kg	33.3 m	95P6/12
150 mm	1.0 kg	27.0 m	95P6/15
180 mm	1.0 kg	22.7 m	95P6/18
200 mm	1.0 kg	20.0 m	95P6/20
250 mm	1.0 kg	13.5 m	95P6/25
300 mm	1.0 kg	11.1 m	95P6/30
350 mm	1.0 kg	9.5 m	95P6/35
400 mm	1.0 kg	8.8 m	95P6/40



Polyester Stockinette

Material

- polyester (PES)
- colour: white

Application

- for reinforcements in laminate layers

Characteristics

- elastic
- low weight
- create a fine and smooth surface

Width	PU	Length per roll	Item-No.
60 mm	0,5 kg	24,5 m	95P16/6
80 mm	0,5 kg	18,0 m	95P16/8
100 mm	1,0 kg	31,5 m	95P16/10
120 mm	1,0 kg	27,5 m	95P16/12
150 mm	1,0 kg	23,3 m	95P16/15
200 mm	1,0 kg	17,5 m	95P16/20
250 mm	1,0 kg	12,8 m	95P16/25
300 mm	1,0 kg	10,2 m	95P16/30



Cotton Stockinette

Material

- cotton (CO)
- colour: white/bleached

Application

- for insulation of plaster moulds
- for absorption of humidity and to create an even vacuum in a work piece

Characteristics

- very elastic

Width	PU	Length per roll	Item-No.
40 mm	0,5 kg	32,0 m	95P3/4
60 mm	0,5 kg	23,8 m	95P3/6
80 mm	0,5 kg	17,2 m	95P3/8
100 mm	1,0 kg	27,7 m	95P3/10
120 mm	1,0 kg	25,6 m	95P3/12
150 mm	1,0 kg	19,2 m	95P3/15
200 mm	1,0 kg	14,9 m	95P3/20
250 mm	1,0 kg	12,5 m	95P3/25
300 mm	1,0 kg	10,0 m	95P3/30
350 mm	1,0 kg	8,9 m	95P3/35
400 mm	1,0 kg	7,7 m	95P3/40



Cotton Stockinette

Material

- cotton (CO)
- colour: off-white

Application

- for insulation of plaster moulds
- for absorption of humidity and to create an even vacuum in a work piece
- multi-purpose tricot stockinette

Characteristics

- very elastic

Width	PU	Length per roll	Item-No.
40 mm	0,5 kg	32,0 m	95P11/4
60 mm	0,5 kg	23,8 m	95P11/6
80 mm	0,5 kg	17,2 m	95P11/8
100 mm	1,0 kg	27,7 m	95P11/10
120 mm	1,0 kg	25,6 m	95P11/12
150 mm	1,0 kg	19,2 m	95P11/15
180 mm	1,0 kg	17,2 m	95P11/18
200 mm	1,0 kg	14,9 m	95P11/20
250 mm	1,0 kg	12,5 m	95P11/25
300 mm	1,0 kg	10,0 m	95P11/30
350 mm	1,0 kg	8,9 m	95P11/35
400 mm	1,0 kg	7,7 m	95P11/40



Cotton Stockinette

Material

- cotton (CO)
- colour: peach

Application

- multi-purpose tricot stockinette

Characteristics

- very elastic

Width	PU	Length per roll	Item-No.
60 mm	1,0 kg	47,6 m	95P15/6
80 mm	1,0 kg	34,4 m	95P15/8
100 mm	1,0 kg	27,7 m	95P15/10
120 mm	1,0 kg	25,6 m	95P15/12
150 mm	1,0 kg	19,2 m	95P15/15



Elastic Ruffled Stockinette

Material

- polyamide (PA, Helanca)
- voluminous yarn
- colour: white

Application

- for reinforcements in laminate layers

Characteristics

- very elastic

Width	PU	Length per roll / size	Item-No.
80 - 90 mm	0,5 kg	38,4 m / Size A	95P12/A
110 - 120 mm	1,0 kg	41,6 m / Size B	95P12/B
140 - 150 mm	1,0 kg	32,2 m / Size C	95P12/C
200 - 210 mm	1,0 kg	23,8 m / Size D	95P12/D



Elastic Stockinette

Material

- polyamide
- voluminous yarn
- colour: white

Application

- for silicone reinforcements

Characteristics

- very elastic

Width	PU	Length per roll	Item-No.
60 mm	0,5 kg	50,0 m	95P19/6
80 mm	1,0 kg	50,0 m	95P19/8
100 mm	1,0 kg	77,0 m	95P19/10
120 mm	1,0 kg	50,0 m	95P19/12
150 mm	1,0 kg	43,5 m	95P19/15



Elastic Ruffled Stockinette

Material

- polyamide (PA, Helanca)
- voluminous yarn
- colour: peach

Application

- for reinforcements in laminate layers
- suitable for coverings of black carbon fibre

Characteristics

- very elastic

Width	PU	Length per roll / size	Item-No.
80 - 90 mm	0,5 kg	38,4 m / Size A	95P13/A
110 - 120 mm	1,0 kg	41,6 m / Size B	95P13/B
140 - 150 mm	1,0 kg	32,2 m / Size C	95P13/C
200 - 210 mm	1,0 kg	23,8 m / Size D	95P13/D



Fibreglass Stockinette

Material

- fibreglass
- colour: white

Application

- for reinforcements in laminate layers

Characteristics

- very elastic
- high mechanical strength
- create a fine and smooth surface

PU = 1 kg

Width	Length per roll / size	Item-No.
70 - 80 mm	39,5 m / Size E	95P14/E
90 - 100 mm	35,7 m / Size A	95P14/A
130 - 140 mm	27,0 m / Size B	95P14/B
150 - 160 mm	21,3 m / Size C	95P14/C
200 - 220 mm	14,3 m / Size D	95P14/D



Polyglass Stockinette

Material

- polyester- and fibreglass mixture
- colour: white

Application

- for reinforcements in laminate layers

Characteristics

- very elastic
- creates a fine surface

Width	PU	Length per roll	Item-No.
40 mm	0,5 kg	34,9 m	95P17/4
60 mm	0,5 kg	30,0 m	95P17/6
80 mm	1,0 kg	34,0 m	95P17/8
100 mm	1,0 kg	30,9 m	95P17/10
120 mm	1,0 kg	25,1 m	95P17/12
150 mm	1,0 kg	22,6 m	95P17/15
200 mm	1,0 kg	17,3 m	95P17/20
250 mm	1,0 kg	14,5 m	95P17/25
300 mm	1,0 kg	11,0 m	95P17/30



Fibreglass Stockinette

Material

- fibreglass
- colour: white

Application

- for special reinforcement technology, recommended by BUFA (Federal College of orthopaedic technology)

Characteristics

- wide-meshed, open knit
- elastic

PU = kg

Width	Length per roll	Item-No.
60 mm	28,5 m	95P4/6
80 mm	17,2 m	95P4/8
100 mm	15,6 m	95P4/10
120 mm	12,5 m	95P4/12
150 mm	9,3 m	95P4/15
180 mm	7,9 m	95P4/18
200 mm	7,2 m	95P4/20
250 mm	5,2 m	95P4/25
300 mm	4,8 m	95P4/30



Nylon Stockinette, very expandable

Material

- Polyamide (PA)
- colour: white

Application

- for insulation during deep-drawing and laminating
- the nylon stockinette helps to work out undercuts during vacuum forming

Properties

- very elastic

Width	Length per roll	Item-No.
5 cm, stretchable to 20 cm	10.0 m	95P1/5
10 cm, stretchable to 40 cm	10.0 m	95P1/10



Nylon Stockinette, extremely expandable

Material

- Polyamide (PA)
- colour: white

Application

- for insulation during deep-drawing and laminating
- the nylon stockinette helps to work out undercuts during vacuum forming

Properties

- extremely elastic

Width	Length per roll	Item-No.
6 cm, stretchable to 40 cm	23.0 m	95P2/5
8 cm, stretchable to 75 cm	23.0 m	95P2/10



Nylon Stockinette, very expandable

Material

- 100 % polyamide (PA)
- colour: black

Application

- for insulation during deep-drawing and laminating
- the nylon stockinette helps to work out undercuts during vacuum forming

Properties

- very elastic
- micromesh knit reduces the formation of running stitches

Width	Length per roll	Item-No.
6-40 cm	31 m	95P2/S



Decoration Lamination Fabrics and -Tubes

Material

- 83% polyester and 17 % elasthane
- weight 180 g/sqm

Application

- decoration fabric for the first or last layer in lamination and Prepreg technology

Characteristics

- coloured motif print
- shiny, smooth surface
- longitudinal expansion 135 %
- transverse expansion 80 %

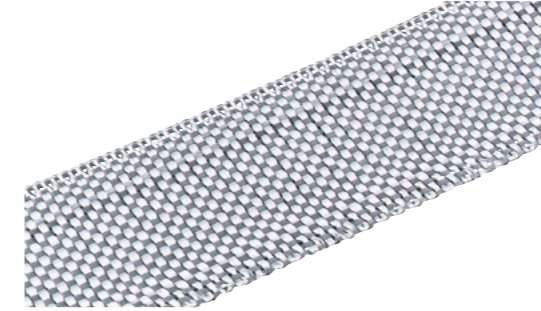
PU = metre or piece (for tubular fabric)

Decoration Lamination Fabrics

Dimensions L x W	Motif	Item-No.
1000 x 1600 mm	white	130P1/01
1000 x 1600 mm	Pin up	130P1/02
1000 x 1600 mm	Motorbikes	130P1/05
1000 x 1600 mm	Tattoo bunt	130P1/11
1000 x 1600 mm	Camouflage	130P1/17
1000 x 1600 mm	Waves	130P1/18
1000 x 1600 mm	Palisander Wood	130P1/19
1000 x 1600 mm	Carbon	130P1/20
1000 x 1600 mm	Jeans	130P1/21

Decoration Lamination Tubes

Dimensions L x W	Motif	Item-No.
1600 x 150 mm	Pin up	131P1/02S
1600 x 200 mm	Pin up	131P1/02M
1600 x 150 mm	Moterbikes	131P1/05S
1600 x 200 mm	Motorbikes	131P1/05M
1600 x 150 mm	Tattoo bunt	131P1/11S
1600 x 200 mm	Tattoo bunt	131P1/11M
1600 x 150 mm	Camouflage	131P1/17S
1600 x 200 mm	Camouflage	131P1/17M
1600 x 150 mm	Waves	131P1/18S
1600 x 200 mm	Waves	131P1/18M
1600 x 150 mm	Palisander wood	131P1/19S
1600 x 200 mm	Palisander wood	131P1/19M
1600 x 150 mm	Carbon	131P1/20S
1600 x 200 mm	Carbon	131P1/20M
1600 x 150 mm	Jeans	131P1/21S
1600 x 200 mm	Jeans	131P1/21M



Glass Fibre Strap bi-directionally woven

Material

- Fibreglass
- weight: 225 g/m²

Application

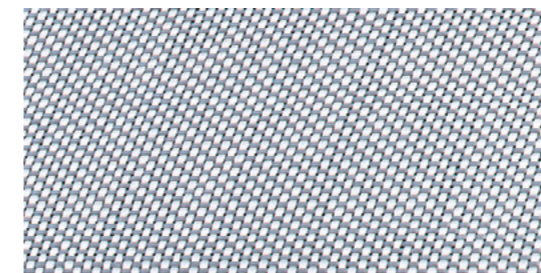
- for circular and axial lamination processes

Properties

- bi-directional 0/90
- Plain weave

Sales unit = 100 metres per roll

Width	Item-No.
50 mm	95P25/50
100 mm	95P25/100



Fibreglass Webbing

Material

- Fibreglass
- weight: 200 g/m²

Application

- for flat lamination processes

Properties

- bi-directional 0/90
- Plain weave

Sales unit = running metre

Width	Item-No.
1100 mm	95P26



Fibreglass Webbing-Combo

Material

- Combination of fibreglass roving and chopped strand mat
- Weight: 910 g/m²

Application

- Reinforcement for laminates

Properties

- Plain weave

Sales Unit = running metre

Width	Item-No.
1250 mm	95P27



Dacron Felt

Material

- polyester
- weight: 190 g/m²
- colour: white

Application

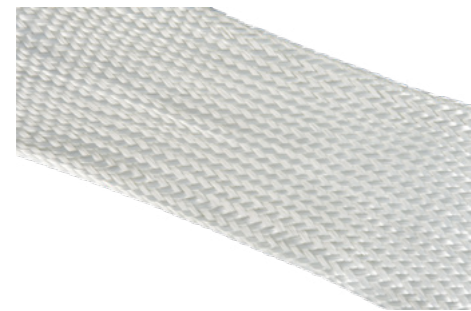
- creates a fine surface
- absorbs excessive resin

Characteristics

- weldable

PU = running metre

Width x Thickness	Item-No.
930 x 3 mm	140P41



Woven Fibreglass Stockinette

Material

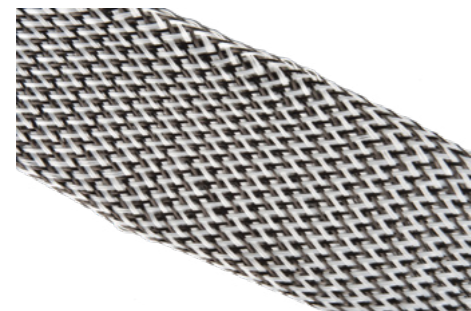
- fibreglass

Application

- for the manufacturing of thin walled but very rigid resin laminates

PU = kg (= 1 roll)

Width	Length per roll	Item-No.
60 mm	12,5 m	95P23/60
80 mm	8,0 m	95P23/80
100 mm	7,0 m	95P23/100



Carbon-/Fibreglass Stockinette

Material

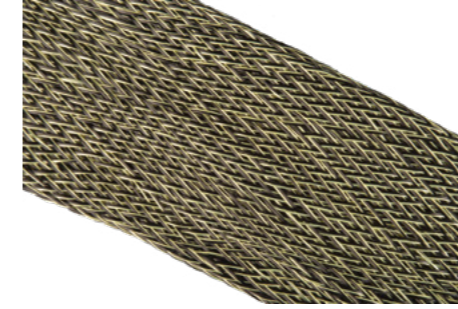
- Carbonfibre-glass braided sleeve

Application

- for thin walled and very rigid resin laminates

Sales unit = 10 metres per roll

Width	Item-No.
80 mm	95P30/80
100 mm	95P30/100



Carbon-/Aramid Fibre Stockinette

Material

- Carbonfibre-aramid braided sleeve

Application

- for thin walled and very rigid light weight resin laminates

Sales unit = 10 metres per roll

Width	Item-No.
80 mm	95P31/80
100 mm	95P31/100



Carbon Fibre Stockinette

Material

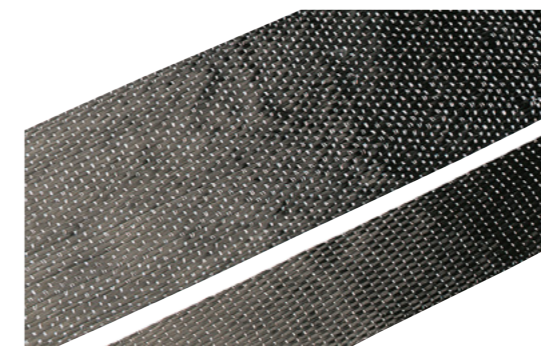
- Carbonfibre braided sleeve

Application

- for manufacturing of rigid resin laminated sockets, for reinforcement of the condylus area and connecting parts with low weight

Sales unit = 10 metres per roll

Width	Item-No.
20 mm	95P9/20
80 mm	95P9/80
100 mm	95P9/100
150 mm	95P9/150
200 mm	95P9/200



Carbon Fiber Webbing unidirectional

Material

- Carbonfibre, unidirectionally woven with a cotton trimming

Application

- for reinforcing laminates in axial as well as circular direction

Sales unit = 50 metres per roll

Width	Item-No.
25 mm	95P28
45 mm	95P8
100 mm	95P18



Carbon Fibre Thread

Material

- Carbonfibre roving

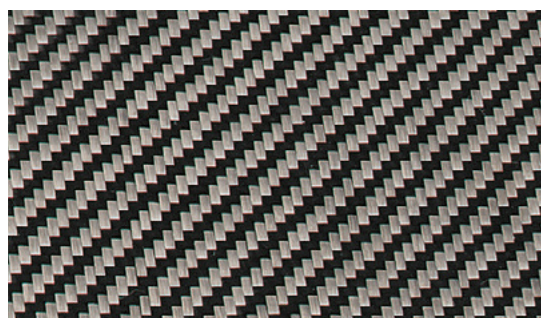
Application

- for sewing of carbon fibre profiles in carbon fibre orthoses

Sales unit = 15 metres per roll

Width	Item-No.
2 mm	250P14

Carbon Fibre Matting



Material

- Carbonfibre
- Twill weave: 204 g/m²

Application

- for very rigid two-dimensional lamination reinforcements

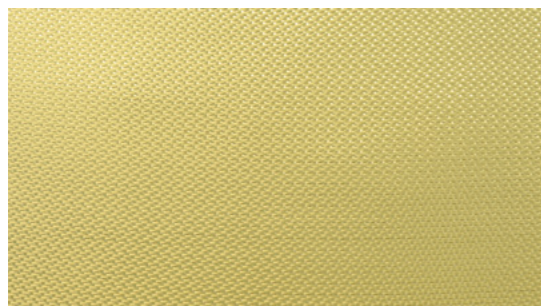
Properties

- well drapeable
- good saturation
- suitable for all resin systems

Sales unit = running metre

Width	Item-No.
1000 mm	95P35

Aramid Fiber Fabric



Material

- aramid
- twill weave: 1/3
- weight: 170 g/qm
- colour: yellow

Application

- for flexible areas within a resin lamination compound

Characteristics

- high hardness
- impact- and abrasion-resistant
- weight-related tensile strength

PU = running metre

Width	Item-No.
1000 mm	95P29



Carbon-UD-Stockinette

Material

- unidirectionally woven carbonfibre elastic stockinette

Application

- for conical or undulated models, suitable for axial-reinforcements

Sales unit = 5 m per roll

Width	Elastic	Item-No.
20 mm	20 - 50 mm	95P7/20
40 mm	40 - 90 mm	95P7/40
70 mm	70 - 150 mm	95P7/70
100 mm	100 - 250 mm	95P7/100
150 mm	150 - 325 mm	95P7/150



PVA Lamination Bag „Special“

Material

- polyvinyl alcohol (PVA)
- material thickness: 0,1 mm
- colour: transparent

Application

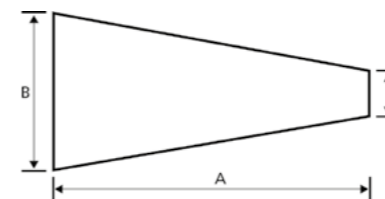
- for acrylic-, epoxy resin as well as Prepreg tasks

Characteristics


- especially durable
- high-quality, hand ironed seam

Size B + C = half circumference

PU = 10 pieces



Dimensions A x B x C	Description	Item-No.
560 x 110 x 40 mm	PVA Bag Size AR	119P29/AR
670 x 270 x 120 mm	PVA Bag Size O	119P29/O
680 x 190 x 70 mm	PVA Bag Size W	119P29/W
1000 x 220 x 70 mm	PVA Bag Size U	119P29/U
1360 x 260 x 50 mm	PVA Bag Size OU	119P29/OU

 For soaking the PVA lamination bags, use a wet and clean towel. Cover resp. roll all PVA lamination bag surfaces into the towel, so all areas of the foil can soak evenly. Soaking time approx. 15- 20 minutes.

PVA Lamination Bag



Material

- polyvinyl alcohol
- material thickness: 0,08 mm
- colour: transparent

Application

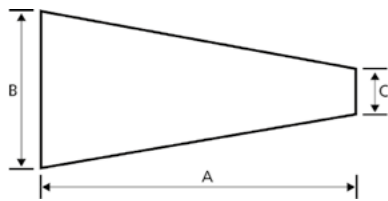
- for acrylic- and epoxy resin as well as silicone tasks

Characteristics


- durable
- tear-proof
- narrow, high quality welding seam

Size B + C = half circumference

PU = 10 pieces



Dimensions A x B x C	Use	Item-No.
600 x 110 x 40 mm	arm prostheses	119P3/1
700 x 190 x 50 mm	soft sockets	119P3/2
700 x 270 x 50 mm	AK prostheses	119P3/3
1000 x 190 x 50 mm	BK prostheses	119P3/4
1000 x 260 x 50 mm	AK prostheses	119P3/5
1300 x 220 x 50 mm	BK prostheses	119P3/6
1300 x 260 x 50 mm	AK prostheses	119P3/7
1300 x 190 x 50 mm	BK prostheses	119P3/8
1000 x 360 x 50 mm	AK prostheses	119P3/9

 For soaking the PVA lamination bags, use a wet and clean towel. Cover resp. roll all PVA lamination bag surfaces into the towel, so all areas of the foil can soak evenly. Soaking time approx. 15- 20 minutes.

PVA Film



Material

- polyvinyl alcohol (PVA)
- colour: transparent

Application

- for acrylic- and epoxy resin as well as silicone tasks

Characteristics

- rolled
- water soluble
- durable
- tear-proof

Width x Thickness	PU	Item-No.
760 x 0,08 mm	per linear metre	110P9/1
1000 x 0,08 mm	per linear metre	110P6/1
1300 x 0,08 mm	per linear metre	110P8/1
760 x 0,08 mm	30 metres	110P9/30
1000 x 0,08 mm	30 metres	110P6/30
1300 x 0,08 mm	30 metres	110P8/30

PVC Film



Material

- soft-PVC

Application

- for model insulation during araldite-resin tasks

PU = linear metre or 200 metres per roll

Width x Thickness	Item-No.
1400 x 0,12 mm	110P4

PTFE Tape



Material

- fibreglass webbing coated with PTFE

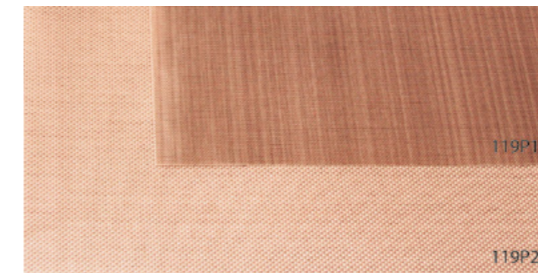
Application

- for sealing iron item-no. 168P5 resp. PVA-foil ironing board

PU = 2 metres per roll

Width x Thickness	Item-No.
100 x 0,13 mm	119P22

PTFE Film



Material


- fibreglass webbing coated with PTFE

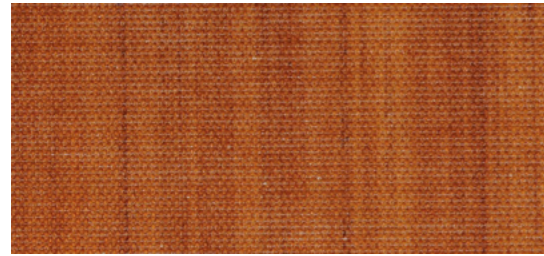
Application

- for flat bed oven

PU = 10 cm

Width x Thickness	Features	Item-No.
1100 x 0.13 mm	non-air-permeable	119P11
1150 x 0.2 mm	air-permeable	119P23

 For sandwich-ovens, use the air-permeable PTFE-Film item-no. 119P23.



PTFE Film

- Material**
- fibreglass webbing coated with PTFE
 - colour: beige

- Application**
- ideally suitable for infrared oven

PU = 10 cm

Width x Thickness	Features	Item-No.
1525 x 0.35 mm	non-air-permeable	119P18



PE-Adhesive Tape „3M“

- Material**
- polyethylene (PE)
 - colour: transparent

- Application**
- various tasks

- Characteristics**
- adhesive on one side
 - non dissoluble
 - good adhesion power

PU = 33 metres per roll

Width	Item-No.
25 mm	119P21



Coroplast Adhesive Tape

- Material**
- soft-PVC-adhesive tape
 - colour: transparent

- Application**
- various tasks (e.g. for sealing damaged PVC-foil)

- Characteristics**
- adhesive on one side
 - supple
 - elastic
 - high adhesion power

Width	PU	Item-No.
38 mm	25 metres	119P12
50 mm	10 metres	119P12/50



PVC Adhesive Tape, doublesided

- Material**
- adhesive tape
 - colour: transparent

- Application**
- for fixation of carbon fibre reinforcements

- Characteristics**
- adhesive on both sides
 - very good adhesion power
 - resolving

PU = 50 metres per roll

Width	Item-No.
6 mm	119P13/6
19 mm	119P13



Polyethylene Adhesive Tape

- Material**
- polyethylene (PE)
 - colour: transparent

- Application**
- various tasks (e.g. for sealing damaged PVC-foil)

- Characteristics**
- adhesive on one side
 - non dissoluble
 - good adhesion power

PU = 50 metres per roll

Width	Item-No.
25 mm	119P20



Masking Tape

- Material**
- masking tape

- Application**
- various tasks
 - for temporary fixation

- Characteristics**
- adhesive on one side
 - can be shortened manually

PU = 50 metres per roll

Width	Item-No.
25 mm	119P6



Linen Adhesive Tape

Material

- linen adhesive tape

Application

- various tasks (e.g. trial fittings)

Characteristics

- adhesive on one side
- tear- and tensile strength

PU = 50 metres per roll

Width	Item-No.
19 mm	119P14/19
25 mm	119P14/25
50 mm	119P14



Adhesive Tape, doublesided

Material

- adhesive tape
- reinforced webbing

Application

- various tasks (e.g. trial fixation of pads)

Characteristics

- adhesive on both sides
- high adhesion power
- sticks on nearly all surfaces

PU = 25 metres per roll

Width	Item-No.
60 mm	119P15



Plastic Tying Tape

Material

- adhesive tape with perlon thread reinforcement

Application

- for securing and reinforcing of prosthetic sockets

Characteristics

- adhesive on one side
- tear- and tensile strength

PU = 50 metres per roll

Width	Item-No.
19 mm	119P16



Foamed Layer Adhesive Tape

Material

- adhesive tape lined with foam material
- colour: black

Application

- for sealing and insulating during working with PUR-rigid foam

Characteristics

- adhesive on one side
- very good adhesion power

PU = 10 metres per roll

Width x Thickness	Item-No.
19 x 4 mm	119P17/19
25 x 4 mm	119P17/25
50 x 4 mm	119P17/50



„Vulkollan“ Elastic Strap

Material

- polyurethane (PUR)

Application

- elastic strap for fixating PVA-lamination bags at the suction tube

Characteristics

- extremely elastic
- tear-proof

PU = 4 metres per roll

Width	Item-No.
15 mm	119P25



Plastilin (Plasticine Clay)

Material

- putty-like modelling material
- colour: white-grey

Application

- for tight sealing during the lamination process of locking systems

Characteristics

- non-poisonous

PU = 1 piece

Content	Item-No.
500 g	113P7



Sealing Grease (Stick Wax)

Material

- stick wax
- colour: yellowish

Application

- for tight sealing during the lamination process of locking systems

Characteristics

- sticky
- highly temperature resistant

PU = 1 tin

Content	Item-No.
5 ml	22A100



Replacement PVC Profile Splints

Material

- PVC

Application

- core material for individual shaping of profile bars in wet-lamination technology

Characteristics

- thermoplastic moldable
- grindable without smearing
- pressure-resistant

PU = set of 3 pcs

L x W x Thickness	Item-No.
1000 x 16 x 3,0 mm	250P11

Foams



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Foams

Polyurethane foams (PU foams) are a very versatile material that is used in all areas of modern orthopaedic technology.

One distinguishes between rigid cellular material (rigid polyurethane foam) and flexible cellular material (soft-elastic foam). While soft-elastic foam materials are primarily used in the area of body cushioning, e. g. for seating shells or orthopaedic shoe technology, rigid foams are especially suitable for small and high-load parts of the orthopaedic and orthopaedic shoe technology range (e. g. length difference compensations) or for positive forms ranging from casting (copying) to spacers and prosthetic sockets to the construction of shoe lasts.

The advantages of this versatile material are obvious

- Rapid, uncomplicated and safe processing
- Rigid cellular material: high mechanical loads and exact forming with simultaneous shape stability
- Good cutaneous tolerance in the cured state
- Simple mechanical processing
- Reasonable prices
- Low weight

To manufacture PU foams two liquid components (foam and hardener) are mixed in a well defined quantity ratio using the hand stirring method. The hardness of the cured PU foam depends on the foam components used. The higher the code number of the foam component (e. g. H 300 or H 700 for rigid cellular material or W 150 or W 300 for flexible foam), the higher the strength and therefore the density (weight in kg per cubic meter) of the final product.



Characteristics

The following rule is suitable for a rough estimation of the foaming characteristics: Volume depends on density, i. e. the lower the density, the larger the volume and vice versa. If the degrees of hardness are to be modified individually, it is possible to mix the component A of a specific hardness with the component A of a different hardness. It is important that the chemical composition as well as the hardener used remain the same!

Storage

Store at room temperature (rather a little too warm than too cold). The liquid components are extremely sensitive to cold. The components should not be stored at temperatures below 15 °C under any circumstance. Otherwise particularly component B will change its state of aggregation and will start to crystallize. If this occurs, the processing will be delayed by up to 24 hours. Under these circumstances we recommend to heat the container with slightly opened cover to about 60 – 70 °C in the oven until the original state is restored. This process may take up to 24 hours. The material can be processed again as usual after it has cooled down to room temperature. Always keep the container well closed since smallest amounts of humidity may already modify the foaming characteristics considerably.

Processing

- Thoroughly shake the components prior to mixing
- Relate the mixing ratio always to the weight and not to the volume and weigh components correctly
- Take a safety margin for the required amount of liquid foam into consideration because some of the material will remain on the wooden spatula (do not scratch off because the remains on the spatula are often unmixed compounds)
- Do not try to influence the foaming process by shaking, knocking etc.

You will find a summary of our delivery program on the following pages. You can download the corresponding safety data sheets via our homepage, or we would be glad to forward them upon written request or requests made by phone.

S Polyurethane foam materials are hazardous substances and may cause allergic reactions when not cured. Toluylene diisocyanate used for some PU foams evaporates at room temperature and inhalation of the vapors may cause damage to the lungs. Pay attention to an adequate ventilation of the workstation and use an appropriate PPE (rubber gloves, plastic apron, and safety goggles) when processing these materials.

Especially in the case of PU foams it is very easy to influence reactivity and consistency by means of humidity: Just a small drop of water changes the foaming behavior and the density of the material considerably!

Hard Foam H 200



Material

- PU Hard Foam
- Volume weight: 200 kg/m³


Application

- for the production of light shortening compensations and cosmetics in prosthetics

Mixing ratio

- 1 part hard foam: 1 part hardener

Content	Item-No.
1.0 kg	112P16/1
5.0 kg	112P16/5

 Please regard the mixing ratio and mix the components well. Please use the designated hardener (item-no. 112P24) for this hard foam.

Hard Foam H300



Material

- PU Hard Foam
- Volume weight: 300 kg/m³


Application

- for the production of light shortening compensations and cosmetics in prosthetics

Mixing ratio

- 1 part hard foam: 1 part hardener

Content	Item-No.
1.0 kg	112P23/1
5.0 kg	112P23/5

 Please regard the mixing ratio and mix the components well. Please use the designated hardener (item-no. 112P24) for this hard foam.



Hard Foam H700

Material

- PU Hard Foam
- Volume weight: 700 kg/m³


Application

- for the production of pressure-resistant shortening compensations and impact- and nail-resistant shoe lasts

Mixing ratio

- 1 part hard foam: 1 part hardener

Content	Item-No.
1.0 kg	112P25/1
5.0 kg	112P25/5

 The expansion behaviour of our hard foam H700 is less pronounced than that of our hard foam H200 and H300. Please use the designated hardener for this hard foam (item-no. 112P24).



Hardener


Application

- for hard foam and impression moulders

Mixing ratio

- 1 parts hard foam H200, H300 or H700: 1 part hardener

Content	Item-No.
1.0 kg	112P24/1
5.0 kg	112P24/5

 Please regard the mixing ratio and mix the components well.



Duplicating Foam

Material

- PU-duplicating-foam

Application


- for duplication of inner shafts

Mixing ratio

- 10 parts duplicating foam: 4 parts hardener for rigid foam item-no. 112P24

PU = 1 bottle

Content	Item-No.
1,0 kg	112P32/1

 For insulation and to achieve a better impression result, please use our Releasing Agent item-no. 84E6. Thoroughly stir duplicating material in correct mixing ratio and pour it into the insulated prosthetic socket; while tilting the socket so the impression material reaches and covers all inner socket areas. After curing, the impression can be carefully pulled out of the prosthetic socket like a rubber skin. The impression made with duplicating material must be carefully stabilized in a sand box with plaster or similar, in order to prevent the copy losing its dimensional accuracy.



Flexible Foam W150

Material

- PU-soft-foam
- brand product
- volume weight: 165 kg/m³

Application

- for manufacturing of soft prosthetic cosmetics and paddings

Mixing ratio

- 2 parts flexible foam W150 : 1 part hardener item-no. 112P28/1

PU = 1 bottle

Content	Item-No.
865 g	112P26/1

 Please regard the mixing ratio and mix the components well.



Flexible Foam W300

Material

- PU-soft-foam
- brand product
- volume weight: 325 kg/m³

Application

- for elastic compensations

Mixing ratio

- 2 parts flexible foam W300 : 1 part hardener item-no. 112P28/1

PU = 1 bottle

Content	Item-No.
865 g	112P27/1



Please regard the mixing ratio and mix the components well.



Hardener for Flexible Foam

Mixing ratio

- 2 parts flexible foam W150 or W300 : 1 part hardener

PU = 1 bottle

Content	Item-No.
865 g	112P28/1



Please regard the mixing ratio and mix the components well.



Pre-preg



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Pre-preg

The word "Pre-preg" comes from the English word "pre-impregnated". Pre-preg is composed of the base material that has been impregnated with a predetermined amount of resin, preferably epoxy resin.

Why use epoxy resin?

- Type of resin most-used for high-quality composites
- Has a good mechanical and bonding property
- Has a good temperature resistance (200 °C) and resistance to chemicals
- Has a low curing temperature of 80 – 120 °C.

Which properties does this resin have?

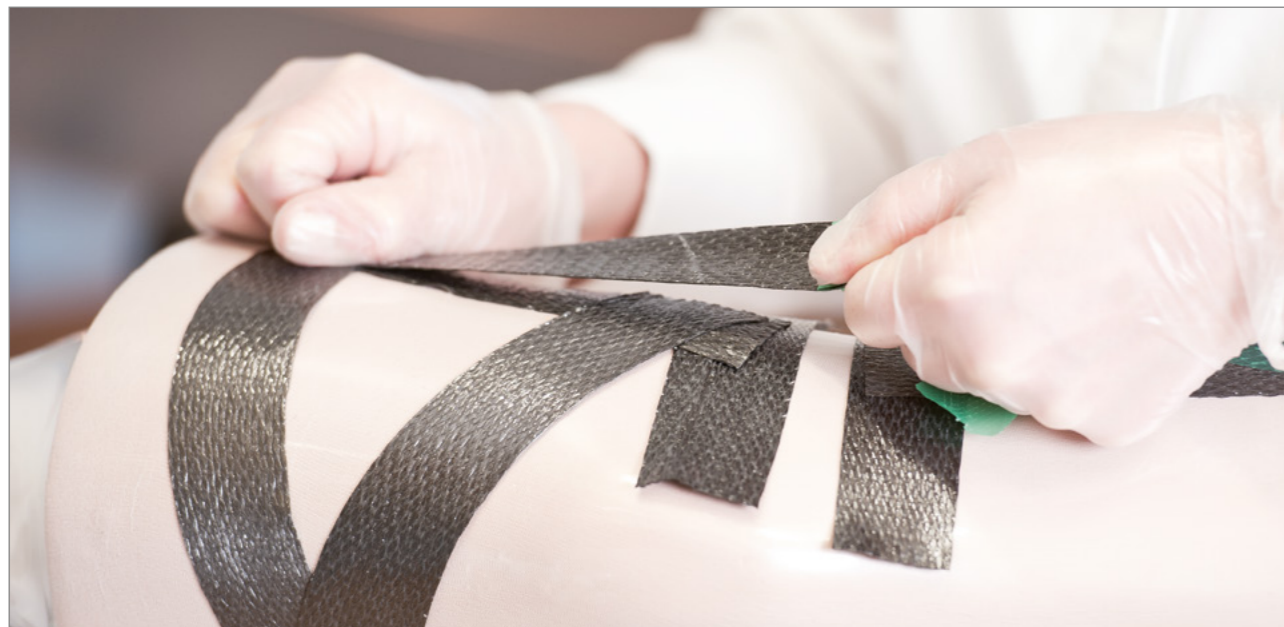
- Fixing of fibers
- Protection of fibers
- Shaping
- Transfer of forces between fibers
- Absorption of forces transversal to fibers

Characteristics

- Considerable force absorption with low deadweight
- Base material and resin components are exactly balanced
- Improved design possibilities dynamic designs are feasible
- Reduced loss of material


Storage

- 12 months at -18 °C
- Up to 21 days at +20 °C
- One day at room temperature corresponds to 13 days less at -18 °C



Technical information

- Plaster models must be absolutely dry.
- Touch Pre-preg with powder-free gloves (item-no. 12P23) only and pay attention to a dry, dust-free and grease-free environment.
- Always stretch the fibers for processing in order to ensure an optimum take-up of forces (exact positioning of the fibers saves sanding).
- Metal surfaces should be used with Pre-preg material as little as possible because compared to Pre-preg metal expands and contracts differently under temperature influences. This may lead to excessive tensional differences in the case of long laminated splints and the bonded connection may tear.
- Metal can be bonded well with Pre-preg on grease and dust-free surfaces only.
- The first contact layer to metals must not be carried out directly over the non-woven honeycomb fabric; a carbon fiber layer for instance may be used as adhesion promoter.
- The best rigidity and form stability is achieved by means of a triangular construction and profiling (the thicker neutral fiber passes through the honeycomb fabric).
- Fracture resistance and stability can be increased by forming larger circles within the load pattern.
- It is possible to integrate a Pre-preg-frame with a layer of acrylic resin. Prior to laying the Pre-preg, a defined distance layer (e. g. 3 – 4 cotton-jersey layers) has to be created between the model and the insulating PVA-sheet, in order to be able to pour some layers of nylon, nylglas or other material under the Pre-preg-frame for the later casting process.
- If the Pre-preg result is too weak, additional Pre-preg-layers can be added and cured, however, we do not recommend the use of further suction fleece.
- Even transitions are achieved by a slight offset of the overlapping Pre-preg-layers (approx. 0,5 – 1,0 cm), however, the final layer should cover all other layers (nicer optical aspect).
- The best processing temperature ranges between 20 and 23 °C. The higher the room temperature, the more sticky the Pre-preg.
- All consumption and utility materials (e. g. tapes) must be temperature resistant up to at least 100 °C according to the relevant curing temperature.
- Empirical values of curing times are 1,5 hours at 100 °C without (plaster) model and 8 hours at 100 °C with plaster model.

 Warm up material at least one hour prior to processing at room temperature in order to evaporate the condensed humidity of the fibers.

Pre-preg – Flow of Work

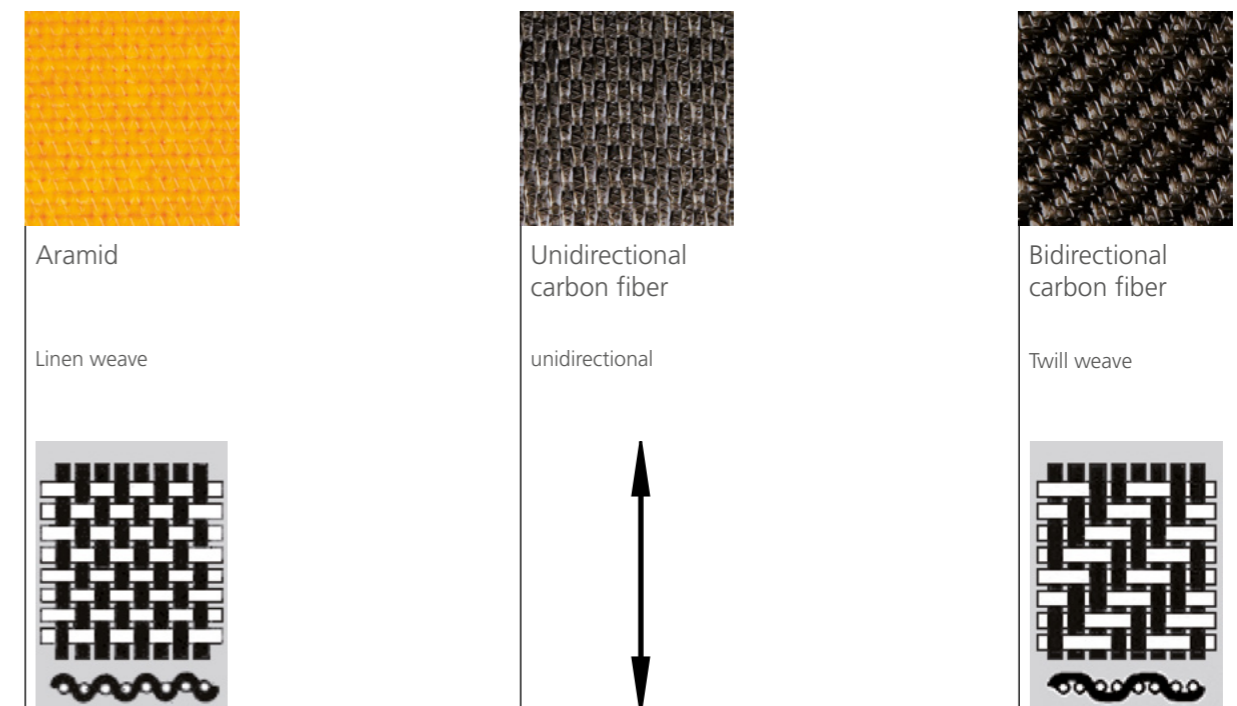
The classical flow of work when using Pre-preg is organized as follows

- Step 1: Insulate the completely dried model with PVA-sheet and connect to a vacuum unit (Vacumat)
- Step 2: If necessary, sketch the form and the width of the frame
- Step 3: Determine the number of layers, the sequence of layers and cut the required material (pay attention to the direction of fiber!)
- Step 4: Cut with a utility knife and ruler or by means of a carbon-scissors or electric scissors (remove protective layer only just prior to applying the material)
- Step 5: Put the layers down in consequential order up to the neutral fiber (pay attention to stretch the fibers) and after the neutral layer put the layers down in mirror-inverted sequence (it helps to check off the used layers in a notebook)
- Step 6: Put down the tear-off fabric onto the layers as wrinkle-free as possible (if necessary cut wrinkles)
- Step 7: Fix suction fleece on top of perforated sheet
- Step 8: Strip over either PVA-sheet or vacuum bag and remove air
- Step 9: Put the Pre-preg piece into the preheated oven (80 – 100 °C) and cure under continuous vacuum for 1,5 and 8 hours
- Step 10: At the end of the curing time switch off the oven and let the model cool down slowly in the oven
- Step 11: Take the lukewarm model out of the oven and remove the tear-off fabric and the suction fleece from the Pre-preg structure
- Step 12: Continue to process the model as desired – wear appropriate PPE (personal protective equipment)!

S Always pay attention to work on a clean and dust-free underlay.
Please wear powder free gloves (Item-no. 12P23)!
Clean knife and scissors regularly with thinner.

It is very important that there is absolutely no humidity enclosed in the model and in the Pre-preg fibers. Otherwise, the Pre-preg will not cure!

Pre-preg – Types of Fabrics & Types of Weave



Depending on the type of weave, different properties are achieved. The more threads are left out, the more the fabric will cling to forms. The linen weave for instance is not very good to drape, however, it is more rigid.





Carbon Fibre Prepreg unidirectional



Material

- unidirectional carbon fibre Prepreg
- mass per unit (DIN 53854): 410 g/m²

Application

- Basic material for the manufacture of e. g. orthoses in a frame construction
- for the absorption of axial and circular forces

Properties

- fibers arranged in a parallel formation are held by glass fiber to enable easier draping
- recommended curing time: at 100 °C depending on model 5-8 hours
- storable at 20 °C: 21 days
- storable at -18 °C: 360 days

Sales unit = 1 sqm

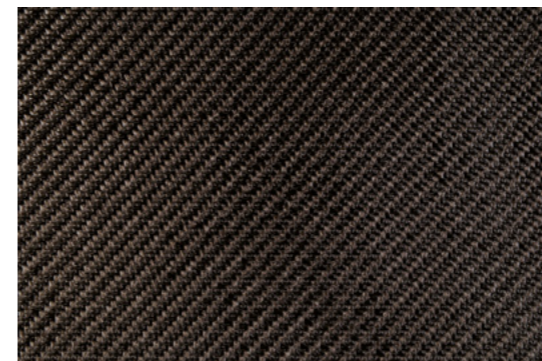
Width	Item-No.
1000 mm	10C2



Please always apply the fibers in a stretched manner.



Carbon fibre Prepreg bi-directionally woven



Material

- bi-directionally woven carbon Fibre Prepreg
- Twill weave: 4:4
- Mass per unit (DIN 53854): 280 g/m²

Application

- suitable for reinforcement layers or to minimize torsion forces, for thinwalled as well as light and filigree workpieces

Properties

- recommended curing time: at 100 °C depending on model 5-8 hours
- storable at 20 °C: 21 days
- storable at -18 °C: 360 days

Sales unit = 1.25 sqm

Width	Item-No.
1250 mm	11C2



Prepreg Cord



Material

- PET-cord, coated with bi-directional Prepreg 200 g/m²

Application

- for edge design and reinforcement of Prepreg laminates

Characteristics

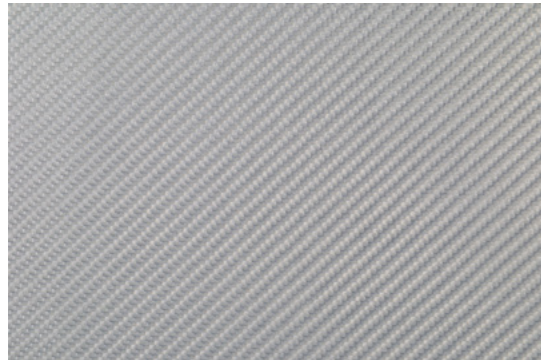
- recommended curing time at 100°C 5 - 8 hours, depending on work piece
- storage time at 20°C: 21 days
- storage time at -18°C: 360 days

PU = 5 m

Diameter	Item-No.
approx. 1,0 mm	150C1/1
approx. 3,0 mm	150C1/3



Glass Fibre Prepreg bi-directionally woven



Material

- bidirectional glass fibre Prepreg
- aluminised
- Twill weave: 2:2
- mass per unit (DIN 53854): 290 g/m²

Application

- silver coloured surface due to aluminisation; for design layers resp. decorative layers

Properties

- recommended curing time: at 100 °C depending on model 5-8 hours
- storable at 20 °C: 21 days
- storable at -18 °C: 360 days

Sales unit = 1 sqm

Width	Item-No.
1000 mm	13C2

Attention: Aluminisation only on one side!



Aramid Prepreg bi-directionally woven



Material

- bidirectional aramide Prepreg
- Plain weave
- mass per unit (DIN 53854): 170 g/m²

Application

- Kevlar fibre to make sandals, loops and bars break proof

Properties

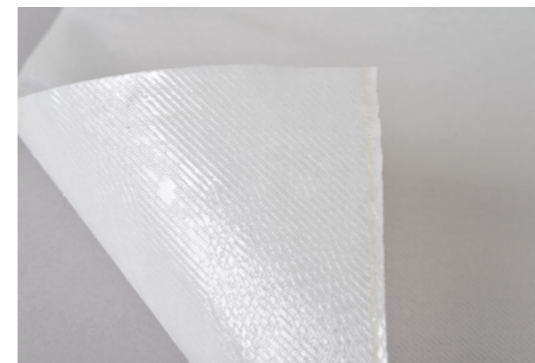
- recommended curing time: at 100 °C depending on model 5-8 hours
- storable at 20 °C: 21 days
- storable at -18 °C: 360 days

Sales unit = 1.2 sqm

Width	Item-No.
1200 mm	12C2



Dyneema Prepreg bi-directionally woven



Material

- bidirectional PE fibre Prepreg
- Twill weave: 2:2
- Mass per unit: 160 g/m²

Application

- PE-fibre for flexible edge areas and flaps
- do not use for weight bearing constructions

Properties

- recommended curing time: at 100 °C depending on model 5-8 hours
- storable at 20 °C: 21 days
- storable at -18 °C: 360 days

Sales unit = 1.25 sqm

Width	Item-No.
1250 mm	14C3



Peeling-Fabric


Material
 • nylon-fabric

Application
 • for draping on adhered Prepreg-layers
 • will leave a roughened surface after removal
 • excessive resin drains off at the side

Characteristics
 • temperature resistance: max. 232 °C

PU = 1,5 sqm

Width x Thickness	Item-No.
1500 x 0,02 mm	20C1

 Optimally suitable for hand laminations in cast resin technique.



Suction Fleece

Material
 • polyester-fleece

Application
 • allows the initiation of vacuum
 • suction fleece absorbs excessive resin out of the Prepreg composite

Characteristics
 • non-poisonous
 • anti-allergic
 • temperature resistance: max. 205 °C

PU = 1,5 sqm

Width	Item-No.
1500 mm	40C1



Honeycomb Fleece Prepreg

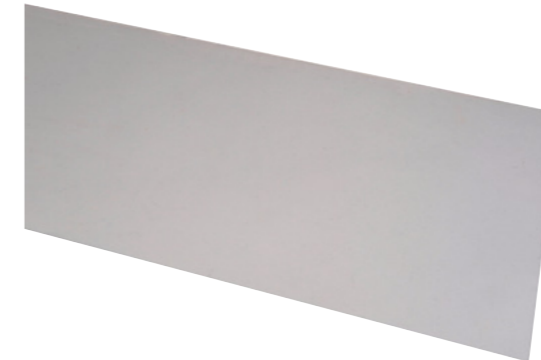
Material
 • Polyester fibre

Application
 • for manufacturing of profiles in Prepreg bonds

Properties
 • pressure- and temperature resistant core layer material

Sales unit = 1.25 sqm

Width x Thickness	Item-No.
1250 x 3 mm	110C2



Silicone Sheet


Material
 • silicone
 • colour: transparent

Application
 • for the design of satin-gloss and smooth surfaces in Prepreg processing
 • for the design of semi-gloss surfaces (in combination with talcum powder 113P6)

Characteristics
 • stretchable
 • re-usable

PU = 1 piece

L x W x Thickness	Item-No.
1000 x 1000 x 0,8 mm	119P7/08

 In order to achieve a balanced vacuum, one layer of nylon stockinette item-no. 95P2/5 should be put between silicone sheet and PVA-foil.



Freeze Spray

Material
 • coldspray

Application
 • suitable for releasing bonded but not yet connected Prepreg material
 • due to refrigeration it is possible to dissolving the layers a lot easier

Characteristics
 • contains a special refrigerating agent for all industrial application ranges
 • local freezing of the sprayed area of up to -45 °C can be produced

PU = 1 tin



Content	Item-No.
400 ml	116P14

 Caution when handling coldspray; risk freezing injuries to unprotected skin.



Sealing Tape

Material
 • tough elastic strip with sticky surface on synthetic rubber base

Application
 • provides for the sealing of air holes when initiating the vacuum

PU = 1 roll (9,15 m)

L x W x Thickness	Item-No.
9150 x 13 x 3 mm	60C1



Araldite Adhesive



Material

- Araldite 2015 is a paste-like epoxy based two component adhesive, it will cure at room temperature and creates semi-elastic bondings

Application

- we recommend Araldite Adhesive for GFK bondings

Characteristics

- thixotropic
- tough bond with gap filling properties
- if applied up to layers of 10 mm, the adhesive will not escape

PU = 1 tube

Content	Item-No.
50 ml	90C1



Silicone Hose, fabric reinforced

Material

- suction hose made of heat-resistant silicone
- colour: red

Application

- suction hose suitable for all Prepreg- resp. HTV-silicone processes

Characteristics

- with fabric reinforcement secured against vacuum collapse
- temperature resistance: max. 300 °C

PU = 1 m

Inner diameter	Wall thickness	Item-No.
6 mm	3 mm	75C1



Mixing Gun

Application

- for Abdosil L item-no. 82E4, Abdosil H item-no. 82E5 and Araldite Adhesive item-no. 90C1

PU = 1 piece

Item-No.
82E6/50



T-piece for Vacuum Hose

Material

- POM
- colour: white

Characteristics

- operation pressure: 0 – 10 bar

PU = 5 pieces

for Vacuum Hose with inner diameter	Item-No.
6 mm	168P53/6
9 mm	168P53/9



Silicone Hose

Material

- suction hose made of heat-resistant silicone
- colour: transparent

Application

- suction hose suitable for all Prepreg- resp. HTV-silicone processes

Characteristics

- temperature resistance: max. 300 °C

PU = 1 m

Inner diameter	Wall thickness	Item-No.
6 mm	2 mm	70C1



Vacuum Adapter

Application

- to attach of the suction hose which can be placed anywhere at vacuum bag item-no. 50C1 and thus is independent from a suction unit

Characteristics

- suitable for silicone hose item-no. 70C1

PU = 1 piece

Outer diameter	Item-No.
6 mm	80C1



Pastosil

Material

- RTV silicone plasticine
- components A and B
- colour: peach

Application

- suitable for the insulation of splints, joints
- spacekeepers and the like when processing Prepreg

Characteristics

- grindable in hardened condition
- processing time depending on room temperature: 2-5 min

Mixing ratio

- component A : component B 1 : 1

PU = 2 resp. 4 plastic containers

Content	Item-No.
4 x 250 g	81E2/1
2 x 1,0 kg	81E2/2



High Performance Sealing Grease (Stick Wax)

Material

- stick wax
- colour: yellowish

Application

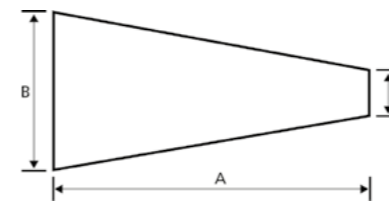
- for insulation of joints and metal parts which are not supposed to bond with the Prepreg

Characteristics

- sticky
- highly temperature resistant

PU = 1 tin

Content	Item-No.
425 g	1C1



PVA Lamination Bag „Special“

Material

- polyvinyl alcohol (PVA)
- material thickness: 0,1 mm
- colour: transparent

Application

- for acrylic-, epoxy resin as well as Prepreg tasks


Characteristics

- especially durable
- high-quality, hand ironed seam

Size B + C = half circumference

PU = 10 pieces

Dimensions A x B x C	Description	Item-No.
560 x 110 x 40 mm	PVA Bag Size AR	119P29/AR
670 x 270 x 120 mm	PVA Bag Size O	119P29/O
680 x 190 x 70 mm	PVA Bag Size W	119P29/W
1000 x 220 x 70 mm	PVA Bag Size U	119P29/U
1360 x 260 x 50 mm	PVA Bag Size OU	119P29/OU

 For soaking the PVA lamination bags, use a wet and clean towel. Cover resp. roll all PVA lamination bag surfaces into the towel, so all areas of the foil can soak evenly. Soaking time approx. 15- 20 minutes.



PVC Film

material

- soft-PVC

application

- creation of shiny and smooth surfaces on Prepreg products

PU = linear metre or 200 metres per roll

Chart 1

Width x Thickness	Type	Item-No.
1300 x 0,12 mm	crystal clear	110P40
1400 x 0,12 mm	frosted	110P4



Cotton Stockinette

Material

- cotton (CO)
- colour: white/bleached

Application

- for insulation of plaster moulds
- for absorption of humidity and to create an even vacuum in a work piece

Characteristics

- very elastic

Width	PU	Length per roll	Item-No.
40 mm	0,5 kg	32,0 m	95P3/4
60 mm	0,5 kg	23,8 m	95P3/6
80 mm	0,5 kg	17,2 m	95P3/8
100 mm	1,0 kg	27,7 m	95P3/10
120 mm	1,0 kg	25,6 m	95P3/12
150 mm	1,0 kg	19,2 m	95P3/15
200 mm	1,0 kg	14,9 m	95P3/20
250 mm	1,0 kg	12,5 m	95P3/25
300 mm	1,0 kg	10,0 m	95P3/30
350 mm	1,0 kg	8,9 m	95P3/35
400 mm	1,0 kg	7,7 m	95P3/40

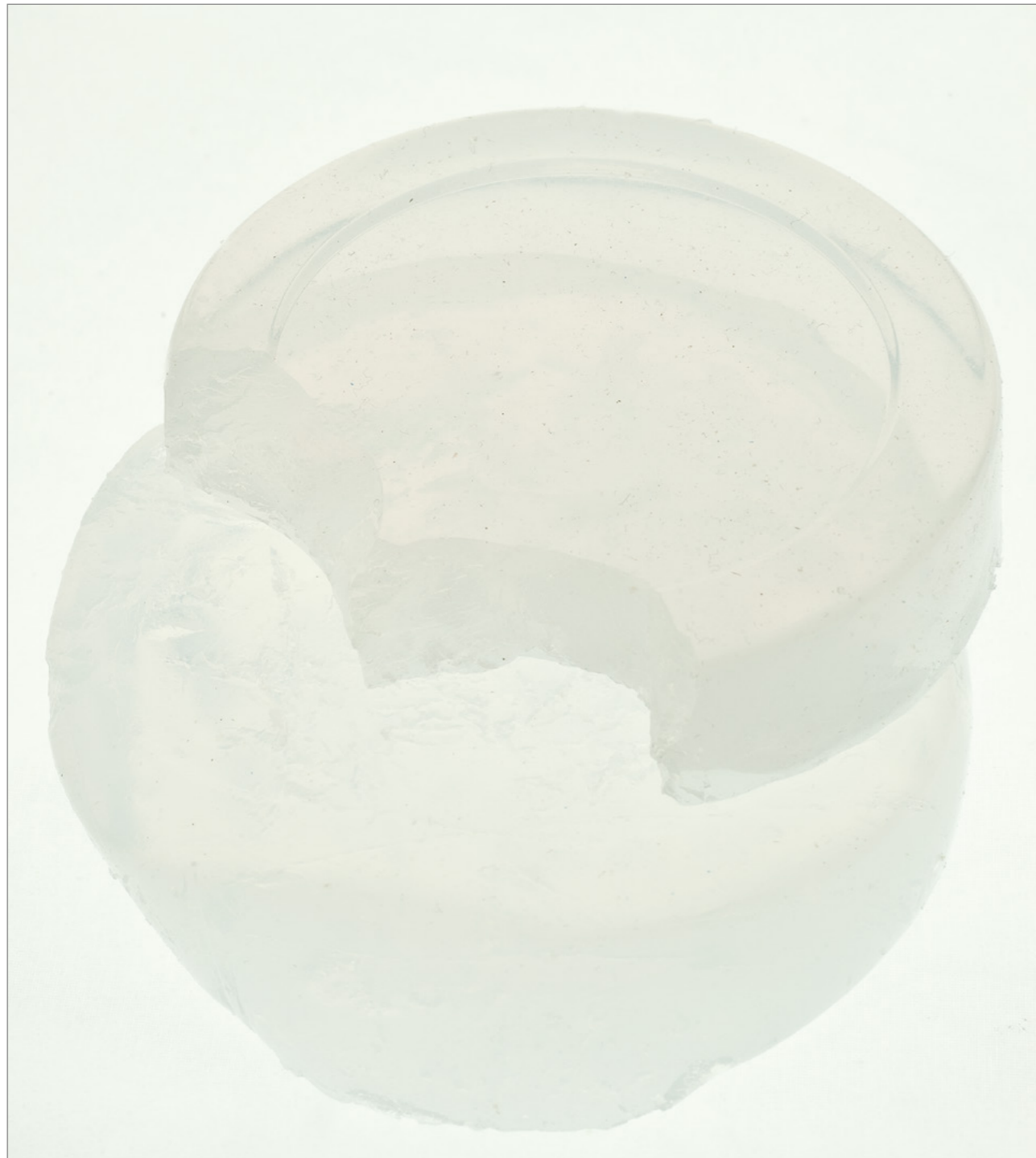
Silicone



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Silicone

Predominantly known from plastic surgery, silicone has already been an important material for a long time and meanwhile it is no longer possible to imagine orthopaedic technology without it. Especially when it comes to the aesthetic demands of amputations or recreating tissue defects, silicone has become the most important material in epithetics. True to detail, deceptively real-looking body replacements, whose connection to the human body seems almost invisible, can soothe the psychological pain of traumatized patients. But also in physiological terms the user will benefit from silicone: Silicone cushionings provide excellent wearing comfort, regardless of whether they are used in a socket for a prostheses, in an epitheses or an ortheses.



Our range of products in the silicone segment includes not only the raw material itself, but of course also all of the key materials and tools needed for manufacturing of epitheses, as well as prosthetic and orthotic sockets. This spans from specialized materials for mold-making, primers and insulations, silicones in different degrees of hardness, dyes of many kinds and miscellaneous adhesives as well as a great number of tools and machinery.



Apart from the excellent physical characteristics of silicone and the very good biocompatibility, which avoids skin irritation or allergies, further advantages of silicone are

- Optimum adhesion
- Durability
- Elasticity
- Easy care
- High wearing comfort
- Physiologically particularly well tolerated

S When processing HTV-silicone, there are a few 'golden rules' to obey:
Please process silicone at a preferably low room temperature, ideally between 16 and 19 °C, in order to avoid the compound silicone from curing too soon.

Use a separate room or a suitable work station, which can be air-conditioned or cooled.

In case of intermissions in the work process, please put the work piece in a suitable refrigerator.

Please pay attention to general cleanliness at the work station and only use a suitable work base, such as our mixing block (item-no. 75E1).

Pay close attention to the safety measures when mixing silicone at the electric roller (calender).

Please obey the following rule of thumb when supplying heat in the oven (tempering/post-curing): 8 hours at 50 °C and 2 hours at 100 °C.

Silicone

What is silicone?

Silicium (chemical shortcut: Si), which in connection with oxygen (O₂) is obtained from several natural products such as sand, pebble stone or quartz, serves as a starting product for the fabrication of silicone. The single molecules are the so-called siloxanes, which link up to form poly-siloxane molecular chains and depending on the synthesis process form the following polymers

- Threadlike, non-cross linked silicones, e. g. silicone oils
- Weakly crosslinked, still dissoluble polymers, e. g. silicone resins
- Polymers crosslinked to form elastomers, e. g. silicone rubber

Classification of silicones	RTV-silicone = room temperature – vulcanising-silicone	HTV-silicone = high temperature – vulcanising-silicone
Colour	transparent respectively opaque	transparent
Consistency	liquid respectively pasty	wax-like
Processing	casting technique respectively kneading	rolling and tumbling of the material and application in the desired wall thickness
Curing	at room temperature 18 – 20 °C	while supplying temperature 80 – 100 °C (vulcanisation)

RTV-silicones

In order to process RTV-silicones two components are needed. The consistency of the final product is determined by the mixing ratio, which means that an individual approach to the needs and indications of the patient is possible. Range of application: spacers and adjustments, e. g. after toe amputations, check-prosthesis.

HTV-silicones

With HTV-Silicones we offer a whole range of different silicones with different degrees of shore hardness.

Due to their skin contact and the needed biocompatibility they contain platinum as a catalyst. The mixing ratio of HTV-Silicones always has to be 1:1 and therefore both material components need to be carefully measured and blended with each other. In an electric roller (calender), the components are blended and rolled until the compound is evenly mixed. Using the wrapping method, the rolled uniform silicone layer is put around the model and seams and intersections are closed with a special tool. A thin, fine nylon tricot (item 95P1 or 95P2) avoids an adhesion of the PVA-foil to the silicone and can be removed after vacuuming without any difficulty. The silicone cures while temperature is being supplied (approx. 80 – 120 °C at approx. 12 hours dwell time in the oven) and for example an individually made silicone liner has been created.

Silicone-oils

Added silicone oil will lower the viscosity of silicones, however a ratio of 5 % oil to the total quantity may not be exceeded.

Characteristics of silicone oil

- Is not integrated into the chain-linking process
- Will lead to a decrease of tensile strength
- Reduces shore hardness
- Enhances material stretch
- Silicone becomes softer and has a tendency to sweat out more

Reinforcements

We advise to use only one layer of stockinette for reinforcements, in order to

- Reduce pistoning, which means no pseudo-arthritis between stump and socket
- Achieve constant lateral elasticity and thereby shape retention
- Well-directed compression of soft tissue
- Resistance to cracks

Inhibitors

Inhibitors are external influences when processing silicones. These may be desirable or just as well undesirable. In the first case they are called “controlled”, in the second case they are called “not controlled” inhibitors. Controlled inhibitors: Are measures used to specifically delay the response time when processing silicones (e. g. item-no. 81E3)

Not controlled inhibitors: These undesired external influences will prevent the silicone from curing, amongst them are

- Rubber
- Latex
- Sulfur
- Instant adhesive
- Adhesives in several adhesive foils
- All the agents which may react with platinum



Alginate

- Material**
- alginate
 - colour: yellow

- Application**
- for detailed cast taking of fingers, epitheses, feet and hands
 - apply a 1 cm layer on the requested body section and reinforce from the outside with a POP bandage
 - subsequently fill the cast with plaster item-no. 5E1 or 5E2
 - for mixing and applying use alginate spatula item-no. 50E4

- Characteristics**
- pleasant smell

- Mixing ratio**
- 23 g Alginate : 50 ml cold water

PU = 1 tin

Content	Item-No.
500 g	1E2



Vaseline

- Material**
- based on vaseline

- Application**
- for skin protection and insulation of casts using Alginate item-no. 1E2

- Characteristics**
- skin-protective
 - skin-caring benefits

PU = 1 tin

Content	Item-No.
1,0 kg	119P26



AbdoSil.RTV L

- Material**
- low viscosity silicone to manufacture very precise impressions
 - colour: blue

- Application**
- especially for Maxillo-Facial-Prosthetics

- Properties**
- incl. catalyst

- Set consisting of:**
- 2 cartridges à 50 ml
 - 12 mixing tips

Sales unit = 1 set

Item-No.
82E4



Abdosil H with Catalyst

to stiffen the material

Material

- low viscosity silicone to manufacture very precise impressions
- colour: green

Application

- especially for Maxillo-facial-prosthetics

Characteristics

- incl. catalyst

Set consisting of:

- 2 cartridges à 50 ml
- 12 mixing tips

PU = 1 set

Item-No.
82E5

 To stiffen the casts made of Abdosil L item-no. 82E4.



Mixing Gun

Application

- for Abdosil L item-no. 82E4, Abdosil H item-no. 82E5 and Araldite Adhesive item-no. 90C1

PU = 1 piece

Item-No.
82E6/50



Mixing Board

Material

- waxed special paper

Application

- for mixing of Episil und Abdosil

Characteristics

- with anti-slip coating to avoid displacement

PU = 1 board with 50 sheets

Dimensions L x W	Item-No.
240 x 150 mm	75E1



Moulding Plaster, synthetic

Material

- calcium-sulfate modification

Application

- for detailed copy from a negative and for mould construction

Characteristics

- low expansion
- very hard

Mixing ratio

- 1 part water : 3 parts special plaster item-no. 5E2

PU = 1 bag

Content	Item-No.
25,0 kg	5E2



Moulding Plaster, porous

Material

- calcium-sulfate

Application

- for direct contact between silicone and plaster
- in combination with vacuum technics using Pastosil und Episil

Characteristics

- hard
- low bubble development

Mixing ratio

- 1 part water : 1,5 parts plaster item-no. 5E1

PU = 1 bag

Content	Item-No.
25,0 kg	5E1



Sealer/Liquid Wax



- Material**
- mixture of C7 – C10 isoalkanes and isopropyl alcohol
 - Sealer/Liquid Wax

- Application**
- insulates plaster casts safely against silicone

- Characteristics**
- liquid
 - brushable
 - quick-drying

Sales unit = 1 bottle

Content	Item-No.
2.72 kg	84E9

Please use your personal protection gear when handling sealer / liquid wax.



Abdoform Releasing Agent



- Material**
- wax in solvent

- Application**
- releasing agent for mould making
 - recommended to insulate models

- Characteristics**
- transparent
 - quick-drying
 - leaves a matte wax film

PU = 1 tin

Content	Item-No.
750 g	84E6

Please use your PPE when working with Abdoform Releasing Agent.



Duplicating Gel

- Material**
- agar-based gel-duplicating material

- Application**
- reusable high quality duplicating compound gel to copy plaster models

- Characteristics**
- specially hard
 - shape retaining
 - melting point approx. 90 °C
 - curing approx. 30 °C

PU = 1 bucket

Content	Item-No.
6,0 kg	84E3



PastoSil.HTV

- Material**
- RTV silicone plasticine
 - components A and B
 - colour: peach

- Application**
- for direct casts on patient
 - for direct casts on patient, for copying of models and for manufacturing of check prostheses

- Properties**
- grindable in hardened condition
 - processing time depending on room temperature: 2-5 min

- Mixing ratio**
- component A : component B 1 : 1

Sales unit = 2 resp. 4 plastic containers

Content	Item-No.
4 x 250 g	81E2/1
2 x 1,0 kg	81E2/2

KonSil.RTV



Material

- liquid RTV silicone
- components A and B

Application

- for the production of stump end load absorption cushioning and soft cushioning

Properties


- Silicone gel with very soft properties
- curing time at room temperature approx. 24 hours

Mixing ratio

- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

Content	Item-No.
1,0 kg each	81E27

 The hardness of KonSil.RTV can be adjusted by addition of FacialSil.RTV 81E1. To do this, mix both mixed components (KonSil.RTV und FacialSil.RTV) and then adjust to desired shore hardness. A mixing ratio of 50:50 will obtain approx. 12 – 15 shore A. At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 45 minutes.

FacialSil.RTV, 35 Shore A



Material

- liquid RTV silicone

Application

- for the production of Maxillo-Facial prosthetics

Properties


- after curing approx. 35 Shore A
- Curing time at room temperature approx. 24 hours

Mixing ratio

- component A : component B (catalyser) 1 : 1

Sales unit = 1 set (2 bottles)

Content	Item-No.
1,0 kg (component A) and 1,0 kg (component B)	81E1/2

 The hardness of KonSil.RTV can be adjusted by addition of FacialSil.RTV 81E27. To do this, mix both mixed components (KonSil.RTV und FacialSil.RTV) and then adjust to desired shore hardness. A mixing ratio of 50:50 will obtain approx. 12 – 15 shore A. At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 45 minutes.

Stabilisator for StreifySil.RTV silicones



Content	Item-No.
100 g	81E28

LinerSil.RTV, 5 Shore A



Material

- liquid RTV silicone
- components A and B

Application

- for the production of individual liners

Properties

- Processing time 10 - 15 min
- demouldable after 90 minutes
- after curing approx. 5 Shore A

Mixing ratio

- component A : component B 1 : 1

Content	Item-No.
500 g each	81E31/1

LinerSil.RTV slow, 5 Shore A



Material

- liquid RTV silicone
- components A and B

Application

- for the production of individual liners

Properties

- Processing time 45 min
- demouldable after 3 hours
- after curing approx. 5 Shore A

Mixing ratio

- component A : component B 1 : 1

Content	Item-No.
1.0 kg each	81E32/2

EpiSil.HTV, 20 Shore A



- Material**
- HTV silicone
 - components A and B

- Application**
- for manufacture of liners, compression gloves and other elastic fittings

- Properties**
- 20 Shore A
 - rollable
 - highly tear-proof after vulcanisation

- Mixing ratio**
- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

Content	Item-No.
1,0 kg each	80E11/2
4,8 kg each	80E11/9,6
6,8 kg each	80E11/13,6

EpiSil.HTV, 65 Shore A



- Material**
- HTV silicone
 - components A and B

- Application**
- for manufacture of supporting scar treatments, reinforcements and orthoses

- Properties**
- 65 Shore A
 - rollable
 - highly tear-proof after vulcanisation

- Mixing ratio**
- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

Content	Item-No.
1,0 kg each	80E31/2
4,8 kg each	80E31/9,6
6,8 kg each	80E31/13,6

EpiSil.HTV, 35 Shore A



- Material**
- HTV silicone
 - components A and B

- Application**
- for manufacture of forefoot prostheses, finger- and partial hand epitheses as well as cosmetic covers

- Properties**
- 35 Shore A
 - rollable
 - highly tear-proof after vulcanisation

- Mixing ratio**
- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

Content	Item-No.
500 g each	80E21/1
1,0 kg each	80E21/2
4,8 kg each	80E21/9,6
6,8 kg each	80E21/13,6



MonoSil.HTV


- Material**
- HTV silicone
 - 1 component

- Application**
- for manufacturing of individual orthoses and prostheses

- Characteristics**
- 35, 55 and 70 shore A
 - suitable for rolling out
 - suitable for colouring
 - very tear-resistant after vulcanisation

- Mixing ratio**
- no mixing ratio, due to single component

Content	Version	Item-No.
2,0 kg	35 shore A	80E10/2
2,0 kg	55 shore A	80E20/2
2,0 kg	70 shore A	80E30/2

 Insulate porous plaster cast models with Sealer/Liquid Wax 84E9. By doing this, it will be easier to remove the silicone after hardening from the plaster cast model.

StreifySil.RTV, 5 Shore A



Content	Item-No.
1,0 kg (component A) and 1,0 kg (component B)	81E26

S To achieve a consistency for trowelling, StreifySil.RTV can be thickened with stabilisator 81E28. Add the stabilisator only drop by drop as needed. Please take care that it is mixed well. At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 5 – 10 minutes.

RTV Silicone Adhesive (1K)



- Material**
- viscous RTV-Silicone
- Application**
- single component for adhesion of fabric covers on liners, and for sealing
- Characteristics**
- heat-stable
 - flexible at low temperature
 - electrically insulating

Item-No.
81E29

Cartridge Gun



- Application**
- for dispensing raw material from cartridges (for item-no. 81E29)

Item-No.
81E29/E1

Silicone Thinner



- Material**
- liquid silicone thinner
- Application**
- for thinning of silicone adhesives (e.g. to adhere fabric covers to liners)
- Characteristics**
- transparent
 - liquid

Content	Item-No.
1 liter	81E30

Silicone-Cleaner „soft formula“



- Material**
- Silicone-Cleaner
- Application**
- Detergent and solvent for silicones
 - for surface dissolving of uncured silicones
- Properties**
- crystal clear
 - liquid
 - exempt from labelling regulation
 - non-flammable

Sales unit = 1 bottle

Content	Item-No.
500 ml	83E6



Heptan



- Material**
- heptan
- Application**
- detergent and solvent for silicones
 - for surface dissolving of uncured Episil item-no. 80E31 (65 Shore A)
- Characteristics**
- crystal clear
 - liquid
 - easily flammable
 - hazardous to water

PU = 1 bottle

Content	Item-No.
250 ml	83E4

S Please use your personal protective equipment (PPE) when handling heptan.



Chemical Protection Gloves

- Material**
- HPPE-laminate film
 - according EN 374 standard; protection category 6
- Application**
- chemical-resistant foilglove, suitable for processing silicone
- Characteristics**
- 5-layer
 - anatomical shape
- PU = 1 pair

Size	Length	Item-No.
7	380 mm	12P22/7
8	380 mm	12P22/8
9	380 mm	12P22/9
10	410 mm	12P22/10



Acrylic-Lacquer



- Material**
- acrylic lacquer aerosol
- Application**
- for insulating of plaster cast moulds
- Characteristics**
- clear
 - shiny
 - quick-drying
- PU = 1 tin

Content	Item-No.
500 ml	117P8

If used with HTV-silicones, remove the model while still warm.



Silicone Oil 1000 Cs

- Material**
- silicone-based oil
- Application**
- for reducing the viscosity of unvulcanised silicones and silicones with vulcanised shore hardness
- Characteristics**
- crystal clear
- PU = 1 bottle

Content	Item-No.
500 ml	83E2/0,5



Silicone Base Coat/Primer

- Material**
- naphtha-based adhesive-agent for silicones
- Application**
- for surface treatment between silicone and other materials
- PU = 1 bottle

Content	Item-No.
50 ml	83E3

Please use your personal protective equipment (PPE) when handling silicone base coat/primer.



Loctite Silicone Glue Set

- Material**
- cyanoacrylate instant adhesive
- Application**
- for strong and very tight bondings of silicones and other elastomers
- Characteristics**
- crystal clear
 - liquid
 - quick-drying
- Set consisting of:**
- 1x Loctite 7063, Quick Cleaner 400 ml item-no. 118P41
 - 1x Loctite 770, Primer 10 g item-no. 118P45
 - 1x Loctite 406, Rapid Glue 20 g item-no. 118P44
- PU = 1 set

Item-No.
81E20

Please use your personal protection equipment (PPE) when handling loctite silicone glue set.



Loctite 770, Primer

- Material**
- chemical roughening agent
- Application**
- for chemical roughening and better ingression of the instant glue item-no. 118P44
- PU = 1 bottle

Content	Item-No.
10 g	118P45

Please use your personal protective equipment (PPE) when handling loctite 770 primer.



Loctite 406, Rapid Glue



- Material**
- cyanoacrylate instant adhesive
- Application**
- for strong and very tight bondings of silicones and other elastomers
- Characteristics**
- crystal clear
 - liquid
 - quick-drying
- PU = 1 bottle

Content	Item-No.
20 g	118P44

Please use your personal protective equipment (PPE) when handling loctite 406 rapid glue.



Loctite 7063, Quick Cleaner



- Material**
- aerosol based on solvent
- Application**
- to thoroughly clean and prepare the adherent surface
- PU = 1 tin

Content	Item-No.
400 ml	118P41

Please use your personal protective equipment (PPE) when handling loctite 7063 quick cleaner.

Cleardur



- Material**
- acrylic powder
- Application**
- for manufacturing finger- and toe nails
- Characteristics**
- transparent
 - use only with Monodur, item-no. 81E25
- PU = 1 bottle

Content	Item-No.
75 g	81E24



Monodur



- Material**
- liquid acrylic monomer
- Application**
- for mixing with Cleardur item-no. 81E24
- Characteristics**
- clear liquid
- PU = 1 bottle

Content	Item-No.
50 ml	81E25

Silicone Hose



- Material**
- silicone
- Application**
- placeholder for the manufacture of fingers
- Characteristics**
- outer diameter: 1 mm
 - inner diameter: 0,4 mm

Length	Item-No.
0,5 m	81E12

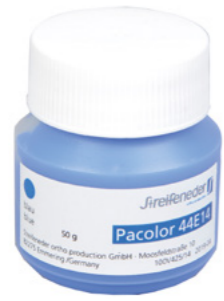


Facialglue



- Material**
- solvent based silicone skin bond
- Application**
- for attaching epitheses and prostheses to the skin
- Characteristics**
- clear liquid
- PU = 1 bottle

Content	Item-No.
20 ml	81E14



Pacolor

- Material**
- pasty, highly efficient colour pigments
- Application**
- for opaque colouring of transparent silicones
- Characteristics**
- pasty
 - temperature resistant
 - intensive colour
 - lightfast

PU = 1 tin (50 g)



Colour	Item-No.
peach	44E10
white	44E11
red	44E12
yellow	44E13
blue	44E14
black	44E15
auburn	44E16
orange	44E17
magenta	44E18
green	44E19



Facolor

- Material**
- viscose fibre (shiny)
- Application**
- for plastic colouring of transparent silicones
- Characteristics**
- temperature resistant
 - intensive colour
 - lightfast

PU = 1 bag (75 g)

Colour	Item-No.
white	45E11
red	45E12
yellow	45E13
blue	45E14
black	45E15
dark red	45E16
dark brown	45E17
pink	45E18
green	45E19
light brown	45E20
sunshine yolk	45E21
violet	45E22
orange	45E23

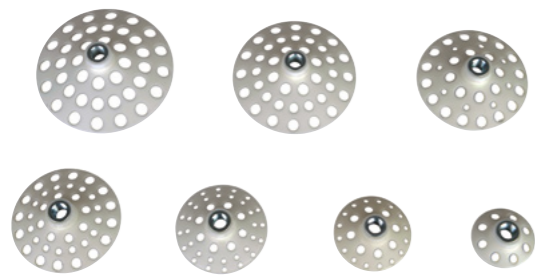


Lamination Disk

- Material**
- stainless steel
- Application**
- to anchor in silicone (HTV), Prepreg and laminating resins
- Characteristics**
- with 3 slots
 - corrosion-resistant

PU = 1 piece

Thread x Head diameter x Length	Item-No.
M4 x 15 x 4.8 mm	34P9



PIN-connection with groove for silicone liners

- Material**
- POM
 - thread bushing made of steel

- Application**
- for individual manufacturing of silicone liners

PU = 1 piece

table 1

diameter	weight	Thread	Item-No.
40 mm	11 g	M10	50A3/40
50 mm	12 g	M10	50A3/50
60 mm	14 g	M10	50A3/60
70 mm	16 g	M10	50A3/70
86 mm	19 g	M10	50A3/86
96 mm	22 g	M10	50A3/96



Duolastic Cover Fabric

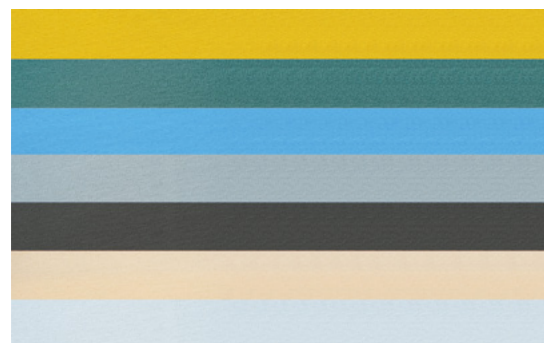
- Material**
- 84 % polyamide and 16 % elasthane
 - 275 g/m²

- Application**
- bi-elastic cover fabric for individual manufacturing of liners

- Characteristics**
- duolastic: extremely elastic in both directions (length: 200 %, width: 150 %) and abrasion resistant
 - one side raised for better silicone fabric connection

PU = running metre

Width	Colour	Item-No.
165 cm	yellow	8T15/G
165 cm	green	8T15/GÜ
150 cm	light blue	8T15/HB
150 cm	grey	8T15/MG
165 cm	anthracite	8T16/A
165 cm	sand	8T16/SD
165 cm	silvergrey	8T16/SG



Zipper

- Material**
- fabric with plastic teeth
 - colour: black

- Application**
- as closing system in silicone orthoses or in textile manufacturing

- Characteristics**
- separating

PU = 1 pc.

Length	Item-No.
20 cm	85E1/20
25 cm	85E1/25
30 cm	85E1/30



Silicone Mixing Bowl

- transparent, for mixing and colouring of acrylics used for finger- and toe manufacture
- PU = 1 piece

Filling quantity	Item-No.
30 ml	75E2



Scissors

- small, bent, with micro-teeth on lower blade, specially recommend for cutting silicone
- PU = 1 piece

Length	Item-No.
130 mm	50E7



Scissors

- small, bent, vertical tip, specially recommend for cutting silicone
- PU = 1 piece

Length	Item-No.
145 mm	50E17



Silicone Spatula

- small, for modelling of moldable silicones and acrylics
- PU = 1 piece

Item-No.
50E6



Silicone Spatula

- flexible
- wide, for mixing of liquid silicones
- PU = 1 piece

Length	Total length	Item-No.
105 mm	205 mm	50E5



Alginate Spatula

- for mixing and applying of Alginate item-no. 1E2
- PU = 1 piece

Item-No.
50E4



Modelling Spatula made of Plastic Material

- to gently remove HTV-silicone residue from mechanical and electronical silicone rollers / calenders
- perfectly suitable for modelling plaster, wax, plasticine and silicone
- PU = 1 piece

Colour	Length	Item-No.
blue	approx. 200 mm	166P24



Processing Roller

- conical
- for processing of moldable silicones
- PU = 1 piece

Item-No.
50E3



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

Length	Diameter	Item-No.
150 mm	8.0 mm	50E15



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

Length	Diameter	Item-No.
120 mm	5.0 mm	50E16



Beale Spatula

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E19



Le Cron Spatula

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E1



Hylon Le Cron Spatula

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E20



Double-Sided Spatula, Small

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E21



Double-Sided Spatula, Wide

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E22



Tweezers

- with angled, toothed point
- PU = 1 piece

	Item-No.
	50E8



Modelling Instrument

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E2



Modelling Instrument

- bent
- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E18



Modelling Instrument Double, Apex Tip

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E23



Modelling Instrument Double-Sided, Fine Tip

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E24



Modelling Instrument Double-Sided, Rounded Tip

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
	50E25



Wax Knife

- for modelling of wax and silicones
- PU = 1 piece

	Item-No.
Length	
170 mm	50E9



Scalpel

- sterile
- with plastic handle
- PU = 20 pieces

Item-No.
160P100



Scalpel handle „Standard, fig. 4“

- solid flat handlesuitable for blades fig. 18-36length = 140 mmPU = 1 piece

Item-No.
50E26



Scalpel Blade

- sterile
- small blade for detailed works
- for scalpel handle item-no. 50E26
- PU = 100 pieces

Size	Item-No.
Fig. 24	50E27



Measuring Cup

- polypropylene
- transparent
- with calibration
- PU = 1 piece

Filling volume	Hight	Diameter	Item-No.
3000 ccm	242 mm	170 mm	90E29/3000
5000 ccm	270 mm	210 mm	90E29/5000



Mixing cup for plaster mixer 90E20

- Mixing cup with stirrer
- for mixing liquid plasters and RTV silicones

Filling volume	Material	Item-No.
500 ml	Plastic	90E20/500



Hand Grinder with Knee-Control Unit

- for fine grinding- and milling tasks

Handpiece

- high performance grinder with comfortable handling
- low weight
- low noise and vibrations
- smooth running

Accessories handpiece

- collet Ø 2,35 mm
- connection cord between handpiece and control unit
- handpiece rest
- protective disk with support
- magnifier
- armrest

Technical data handpiece

- speed range: clockwise rotation 1000 – 50000 RPM, counter-clockwise rotation limited to 5000 RPM
- dimensions: L x Ø: 165 x 29 mm
- max. torque: 7 Ncm
- weight: 355 g

Knee-control unit

- 4 storable programs
- constant rotation speed by automatic adjustment
- 4-colour display for easy recognition of the stored programs
- quick access to preset rotation speeds and torques

Accessories knee-control unit

- 2,5 m power cord with grounded plug

Technical data knee-control unit

- dimensions W x D x H: 95 x 280 x 235 mm
- power requirements: 100 – 240 V / 50 – 60 Hz / 1 Ph / 0,22 kW
- weight: 3 kg

Item-No.
90E14



Carbide Cutting Bit

- u-conical shape with flat point, tothing, for sharp-edged milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E1



Cutting Bit, Drum

- carbide cutting bit with spiral bevel tothing for silicone, cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E2



Carbide Cutting Bit

- drum shape with flat point, spiral bevel tothing, for area-measured milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E10



Carbide Cutting Bit

- drum shape with round point, fine spiral bevel tothing, for fine milling works in plastic and metal
- PU = 1 piece

	Item-No.
	60E9



Cutting Bit for Silicone, Cone

- carbide cutting bit with special tothing for silicone, conical shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E11



Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, bulb shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E12



Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, slim cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	Item-No.
	60E13



Spindle Holder

- for clamping of polishing wheels, wire wheels and cutting wheels
- PU = 1 piece

	Item-No.
	60E14



Carbon Polishing Wheel

- for clamping on spindle holder item 60E14, for cutting of metal
- Sales unit = 10 pieces

	Item-No.
	60E15



Fleece Polishing Wheel

- for clamping on spindle holder item 60E14
- for fine machining of RTV silicone plasticine and PVC
- PU = 10 pieces

Diameter	Item-No.
28 mm	60E16



Polishing Wheel

- for clamping on spindle holder item 60E14
- for fine machining of RTV silicone plasticine, PVC and metal
- max. revolution: 10.000 RPM
- PU = 10 pieces

	Item-No.
	60E17



Wire Wheel

- for clamping on spindle holder item 60E14, for machining of foam and for roughening of silicone
- PU = 6 pieces

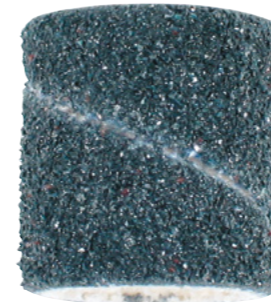
Diameter	Item-No.
21 mm	60E18



Sanding Cylinder

- with rubber coating, for clamping of sanding sleeves item 60E20
- PU = 1 piece

Diameter	Item-No.
9 mm	60E19



Sanding Sleeves

- for clamping on sanding cylinder item 60E19, for sanding of plastic, plaster and silicone
- PU = 100 pieces

Diameter	Item-No.
9.5 mm	60E20



Plaster Cutter, Ball

- cone shape with point, rough tothing, for sanding works on plastic, metal and plaster
- PU = 1 piece

	Item-No.
	60E6



Plaster Cutter, Cone

- cone shape with round point, rough tothing, for rough sanding works on plastic, metal and plaster
- PU = 1 piece

	Item-No.
	60E7

Plaster Cutter, Pointed



- carbide cutting bit, slim conical shape with point, fine cross tooting, for fine sanding works on plastic, metal and plaster
- PU = 1 piece

	Item-No.
	60E8

Silicone Polisher



- for finishing silicone surfaces
- max. revolution: 15.000 RPM
- PU = 5 pieces

	Item-No.
	60E4

Polishing Brush



- in connection with polishing paste item 60E21, for polishing of acrylics
- PU = 1 piece

	Item-No.
	60E5

Polishing Paste



- for use with polishing brush item 60E5, for polishing of acrylic nails
- PU = 1 piece

Content	Item-No.
200 g	60E21

Sand Paper Holder



- for clamping of sand paper
- PU = 1 piece

	Item-No.
	60E3

Sand Paper



- Material**
- sand paper grit 240

- Application**
- for sand paper holder item-no. 60E3
 - for fine sanding of surfaces made of plastic, metal and plaster

PU = 10 m

	Item-No.
	60E22



Silicone Work Station

Features

- dust suction unit
- 3 drawers
- 4 sockets
- connections for gas, electro and compressed air
- front table for suction mouth
- flexible work lamp
- adjustable working height

Technical data

- dimensions W x D x H: 1240 x 620 x 820 – 950 mm
- scope of adjustment: 6 adjustments à 25 mm
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / max. 1 kW
- weight: approx. 130 kg
- colour: gentian blue

Item-No.
90E50

The total consumption of the connected electrical devices must not exceed 12 A.

picture similar



Mechanical Silicone Roller

- for mixing of small quantities of silicone (up to 100 g) and for rolling out silicone sheets

Features

- 2 manually operated chromed rollers, rotating in opposite direction
- manually adjustable roller gap

Technical data

- dimensions: W x D x H: 600 x 350 x 310 mm
- diameter of rollers: 100 mm
- length of rollers: 350 mm
- roller gap: 0,1 – 3 mm, manually adjustable in 15 different steps
- max. sheet size: 300 x 300 mm
- colour of metal parts: RAL 7035 light grey
- weight: approx. 64 kg net

Item-No.
90E35

 For cleaning use Heptan item-no. 83E4.

picture similar

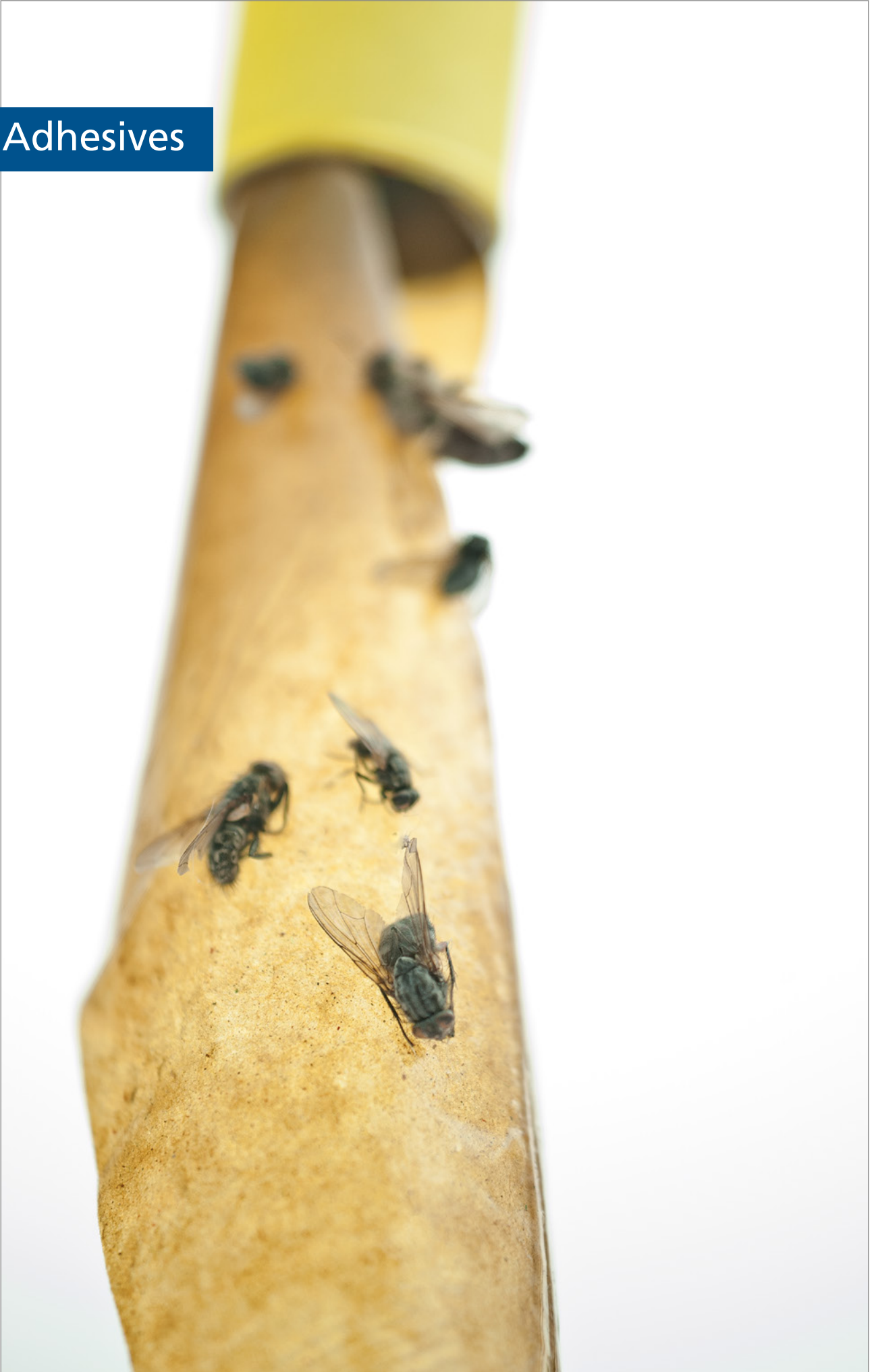


Autoclave

- high pressure device for polymerisation of acrylics (e. g. fingernails)
- incl. 1 m charging hose
- material: coated aluminum
- capacity: 4,0 liter
- outer dimensions: H 22 cm x Ø 24,5 cm
- inner dimensions: H 13,5 cm x Ø 20,5 cm
- operating temperature: 45 °C
- weight: 3,11 kg

Item-No.
70E2

Adhesives




Adhesives

Depending on the processing technique, the used material and the desired result, there is a large variety of high-quality adhesives, which are used in modern orthopaedic technology and orthopaedic shoe technology. Contrary to many industrial adhesives which are used in industrial manufacture, the adhesives used for orthopaedic applications must fulfill a maximum amount of adhesion power, curing speed and cutaneous tolerance in the hardened state.



Via our homepage you can download the corresponding safety data sheets for products, which have to be labeled according to the Ordinance on Hazardous Substances, or we would be glad to forward them upon written request or requests made by phone.

Please always store adhesives in a separate storage for hazardous substances, the optimum temperatures are approx. 20 °C. At temperatures below 15 °C, there is the danger of adhesive thickening or agglomerations (especially in the case of toluene-free adhesives) which will make the adhesive unusable. Caution: Contrary to adhesives, hardening agents, primers etc. have to be stored at low temperatures.

 Please ensure sufficient aeration at the workstation because of the solvents and pay attention to the processing and storage instructions on the containers of the product.

The variety of different materials and fields of application on the one hand represents high demands on the adhesive or the adhesives. At the same time, the glues may not be harmful to either the environment or the health of the user.

We distinguish between the following types of adhesives


- General purpose adhesives – such as Listra Fix Adhesive item-no. 118P12 (will glue any material except PVC) or Colle de Cologne Adhesive item-no. 118P14
 - Fast adhesive such as – Ortec-Glue item-no. 118P18 – Vulkofest-96 item-no. 118P10 – Forte Rapid Adhesive item-no. 118P13 which do not bond PVC but anything else which produces dust during grinding
 - Special plastic-bonding adhesive – such as Syntic-Total Adhesive item-no. 118P11 for PE, PP and also PVC
- In difficult cases, we recommend the use of aids such as hardening agents or primers.

Safety instructions

Adhesives, solvents, thinners etc. contain hazardous substances. Please always pay attention to the specific product safety data sheet! The amount stored in the workshop should not exceed the daily consumption. In addition, pay attention to a sufficient aeration of the workstation and use an appropriate PPE (protective gloves, plastic apron, and safety goggles).

On the following pages you will find a number of different adhesives with different drying and waiting times. Depending on the adhesive, the drying time amounts from 3 – 30 minutes. As a rule, you do not have to stick the parts together immediately after the drying time. The so-called waiting time ranges from the end of the drying time until the last possibility to obtain a good bonding result. Depending on the adhesive, this time may range from 3 minutes up to several hours.

S Sand the parts to be bonded and remove the sanding dust thoroughly.
 Clean greasy surfaces with acetone or thinner prior to bonding.
 Make sure that the surfaces to be bonded are dry.
 Each adhesive can be activated both at warm and at cold temperatures.
 The pressing power has to be adjusted according to the material to be bonded: The softer the material, the lesser the pressure to be used and vice versa.
 Each adhesive can immediately be processed (sanded, milled etc.) after the pressing.



+PLUSeries® Composite 1 minute adhesive

Characteristics:

- Colour black
- very strong
- builds up, becomes part of the construction
- resistant to high temperatures, moisture, most solvents and chemicals
- 1 minute processing time
- available in 50 and 220 ml cartridges

Amount	Item-No.
50 ml	90C4/50
220 ml	90C4/220

Mixing nozzles for +PLUSeries®

Characteristics:

- easy to apply to the cartridge
- functions as a vacuum valve until the next use
- has a mixing function for the perfect combination of the two components
- single-use item

Size	Item-No.
für 50 ml	90C5/50
für 220 ml	90C5/220



Mixing Gun, 220 ml

Application:

- for squeezing raw material out of cartridges
- permits uniform mixing of 2 components (1:1)
- suitable for use with des +Pluseries, 1 minute composite adhesive, 220 ml

Size	Item-No.
für 220 ml	90C6/220



Mixing Gun

Application

- for Abdosil L item-no. 82E4, Abdosil H item-no. 82E5 and Araldite Adhesive item-no. 90C1

PU = 1 piece

	Item-No.
	82E6/50



Listra Fix Adhesive

Material

- neoprene contact glue containing polychloroprene
- Streifeneder brand
- colour: transparent

Application

- bonds all materials except PVC

Characteristics

- toluene-free
- excellent spreading characteristics
- „allrounder“
- setting time: 5-30 minutes
- drying time: 5 minutes

Content	PU	Item-No.
850 g	1 tin	118P12/1
4,0 kg	1 can	118P12/4
10,0 kg	1 can	118P12/10

Especially recommended for bonding of materials in transparent or bright colours. Invisible glue line especially on light coloured EVA sheets.



„Ortec“ Glue

Material

- contact glue containing polychloroprene
- colour: transparent

Application

- bonds all materials also PP and PE, except soft-PVC

Characteristics

- phenol-free
- toluene-free
- setting time: 10-60 minutes
- drying time: 5 minutes

Content	PU	Item-No.
850 g	1 tin	118P18/1
4,0 kg	1 can	118P18/4

Especially suitable for allergy sufferers and diabetics.



Forte Rapid Adhesive

Material

- neoprene contact glue containing polychloroprene
- colour: yellowish

Application

- bonds all materials except PVC
- optimally suitable for bonding of soft sockets

Characteristics

- high temperature-proof at approx. 130 °C
- toluene-free
- setting time: 5-20 minutes
- drying time: 5 minutes

Content	PU	Item-No.
850 g	1 tin	118P13/1
10,0 kg	1 can	118P13/10

Due to the extremely fast cristallization process you can continue to work on the workpiece without having to adhere to any repose periods. The heat resistance is sufficient enough to start sanding or milling at once. The adhesion force rises continually and will reach its maximum value after 1-2 days.



Listra Top Adhesive

Material

- neoprene contact glue containing polychloroprene
- Streifeneder brand
- colour: transparent

Application

- bonds all materials except soft-PVC
- optimally suitable for bonding of soft sockets

Characteristics

- high temperature-proof at approx. 130 °C
- toluene-free
- setting time: 7-40 minutes
- drying time: 7 minutes

Content	PU	Item-No.
850 g	1 tin	118P17/1
4,0 kg	1 can	118P17/4

Due to the extremely fast cristallization process you can continue to work on the workpiece without having to adhere to any repose periods. The heat resistance is sufficient enough to start sanding or milling at once. The adhesion force rises continually and will reach its maximum value after 1-2 days. Please order the thinner for rapid glue item-no. 116P10.





„Vulkofest-96“ Adhesive



Material

- neoprene contact glue containing polychloroprene
- colour: yellowish

Application

- bonds all materials except PVC

Characteristics

- skin-friendly
- toluene-free
- setting time: 15-120 minutes
- drying time: 15 minutes

PU = 1 can

Content	PU	Item-No.
4,0 kg	1 can	118P10



Syntic-Total Adhesive



Material

- polyurethane contact glue
- colour: yellowish

Application

- bonds PUR, TR, latex, PVC and other materials

Characteristics

- toluene-free
- setting time: 5-30 minutes
- drying time: 5 minutes

Content	PU	Item-No.
90 g	1 tube	118P11/T
850 g	1 tin	118P11/1
4,0 kg	1 can	118P11/4

S Syntic-Total will glue chrome leather if used with our hardener item-no. 118P23. Together with RehaGol item-no. 118P22 you will be able to glue soft rubber, TR (technical rubber) and latex.



Colle de Cologne Adhesive



Material

- universal adhesive containing polychloroprene
- colour: yellowish

Application

- bonds all materials also PVC

Characteristics

- toluene-free
- „allrounder“
- setting time: 5-30 minutes
- drying time: 5 minutes

Content	PU	Item-No.
850 g	1 tin	118P14/1
4,0 kg	1 can	118P14/4

S By adding our 5-10 % of our hardener item-no. 118P23 you can substantially improve the resistance to chemicals and the heat stability.



Pattex Power Adhesive



Material

- neoprene contact glue containing polychloroprene
- brand product
- colour: yellowish

Application

- bonds all materials except polystyrene, soft-PVC and imitation leather

Characteristics

- toluene-free
- setting time: 10-15 minutes
- drying time: 10 minutes

Content	PU	Item-No.
650 g	1 tin	118P9/1
4,5 kg	1 can	118P9/5



Dilution for Pattex Adhesive



Material

- thinner for Pattex-glue

Application

- special thinner to dilute and separate Pattex bondings
- for removal of glue spots

Characteristics

- regulates the spreadability of Pattex-glues

PU = 1 can

Inhalt	Item-No.
5,0 l	116P4/5

S Too much thinner will negatively effect the bonding result.



Rubber Solution



Material

- special glue, based on natural rubber

Application

- for all kinds of sewing work with leather

Characteristics

- does not gum up the needle
- does not block the thread channel
- setting time: 5-20 minutes
- drying time: 5 minutes

PU = 1 tin

Content	Item-No.
580 g	118P1



Multi Purpose Glue (Plaster Insulating Varnish)



- Material**
- adhesive on nitrocellulose- and synthetic resin base
 - colour: transparent

- Application**
- suitable for all leather works
 - suitable as lacquer for plaster cast moulds

- Characteristics**
- toluene-free
 - the parts to be bonded are pressed on each other while still damp (pressing time 20 minutes)
 - very heat- and oil resistant
 - high flexibility of the adhesive film avoids pre-mature embrittlement and aging of the bond

Content	PU	Item-No.
850 g	1 tin	118P25/1
4,0 kg	1 can	118P25/5

For dissolving Edelkitt glue / Celluloid glue, use the R + L solvent on acetone base, item-no. 116P2.



R + L Solvent, Based on Acetone



- Material**
- acetone-solvent
 - colourless

- Application**
- cleaners and solvents
 - dilution for Syntic-Total item-no. 118P11 and Edelkitt glue/Celluloid glue item-no. 118P25

- Characteristics**
- sharp odour
 - chemically pure

Content	PU	Item-No.
1,0 l	1 bottle	116P2/1
5,0 l	1 can	116P2/5

When using R + L solvent, please always wear safety gloves item-no. 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



Thinner for Rapid Glue



- Material**
- thinner for rapid glue
 - colourless

- Application**
- thinner for rubber solution item-no. 118P1, Vulkofest-96 adhesive item-no. 118P10, Litra Fix adhesive item-no. 118P12, Forte Rapid adhesive item-no. 118P13, Colle de Cologne adhesive item-no. 118P14, „Ortec“ glue item-no. 118P18

- Characteristics**
- toluene-free

Content	PU	Item-No.
1,0 l	1 tin	116P10/1
5,0 l	1 can	116P10/5

When using Thinner for Rapid Glue, please always wear safety gloves item-no. 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



„deSohl“-Soluble



- Material**
- solvent to separate bondings
 - colourless

- Application**
- for leather cleaning
 - removes shoe soles
 - etches TR (technical rubber) sole materials

Content	PU	Item-No.
1,0 l	1 tin	116P20/1
5,0 l	1 can	116P20/5

When using „deSohl“-Soluble, please always wear safety gloves item-no. 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



Hardener (Colourless Cross Linker)



Material

- hardener for bondings with Vulkofest 96 item-no. 118P10, Syntic Total item-no. 118P11 and Colle de Cologne item-no. 118P14
- colourless

Application

- for improvement of bonding characteristics
- for improvement of heat resistance
- increased chemicals resistance

Characteristics

- enforce adhesive strength on oily materials, chrome leather and PUR-materials

PU = 1 bottle

Content	Item-No.
100 ml	118P23

Please add 5-8 percent in volume or 4-8 percent in weight to the glue immediately before processing it.



Rehagol-Halogenate (PU Primer)



Material

- chlorine primer for Vulkofest 96 item-no. 118P10 and Colle de Cologne item-no. 118P14
- colourless

Application

- for preparation of TR-soles and latex-materials for better bonding

PU = 1 bottle

Content	Item-No.
100 ml	118P22

The Rehagol primer must not be applied with a metal brush.



Spray-On Adhesive



Material

- aerosol glue

Application

- suitable for all materials and reinforcement tasks with carbon or glass fibre
- Characteristics

good emptying characteristics

- fine atomisation
- setting time: 10-50 minutes after spraying on
- drying time: 10 minutes

Content	Item-No.
500 ml	118P28



Spray-On Adhesive „Special“



Material

- aerosol glue

Application

- for all materials and reinforcement tasks with carbon- resp. glass fibre
- Characteristics

setting time: up to 10 seconds after spraying on

- drying time: 15 minutes
- PU = 1 tin

Content	Item-No.
500 ml	118P38



Super Glue



Material
 • cyanoacrylate instant adhesive

Application
 • for good bondings between metals and elastomers and many other materials

Characteristics
 • crystal clear
 • thin liquid
 • quick-drying

PU = 1 bottle

Content	Item-No.
20 g	118P29

Please always wear protective goggles (PPE) when working with rapid glue. Please store the super glue bottle upright.



Super Glue / Atomic Glue, elastic



Material
 • cyanoacrylate instant adhesive

Application
 • suitable for semi-elastic bondings of elastomers and laminates (e.g. Dermaflex-Cosmetic Skin, item-no. 3P42)

Characteristics
 • crystal clear
 • jelly-like
 • quick-drying

PU = 1 bottle

Content	Item-No.
20 g	118P31

Please always wear protective goggles (PPE) when working with rapid glue. Please store the super glue / atomic glue bottle upright.



Loctite Silicone Glue Set



Material
 • cyanoacrylate instant adhesive

Application
 • for strong and very tight bondings of silicones and other elastomers

Characteristics
 • crystal clear
 • liquid
 • quick-drying

Set consisting of:
 • 1x Loctite 7063, Quick Cleaner 400 ml item-no. 118P41
 • 1x Loctite 770, Primer 10 g item-no. 118P45
 • 1x Loctite 406, Rapid Glue 20 g item-no. 118P44

PU = 1 set

Item-No.
81E20

Please use your personal protection equipment (PPE) when handling loctite silicone glue set.



UHU-Plus Adhesive 300



Material
 • two-component adhesive, based on epoxy resin
 • brand product

Application
 • for strong bondings between various materials except PE and PP

Characteristics
 • mixing ratio binder and hardener: 1:1
 • working time (open time) approx. 120 min.
 • final strength after approx. 12 – 24 hours

PU = 1 set

Content Bond	Content Hardener	Item-No.
18 g	15 g	118P32



Araldite Adhesive



Material

- Araldite 2015 is a paste-like epoxy based two component adhesive, it will cure at room temperature and creates semi-elastic bondings

Application

- we recommend Araldite Adhesive for GFK bondings

Characteristics

- thixotropic
- tough bond with gap filling properties
- if applied up to layers of 10 mm, the adhesive will not escape

PU = 1 tube

Content	Item-No.
50 ml	90C1



Sealing Resin Compact Glue



Material

- compact acrylic-resin glue, with jelly-like consistency
- colourless

Application

- for firm bonding of acrylic-resin laminates

Characteristics

- jelly-like
- cures with addition of 1-3 % hardener powder, item-no. 112P33 or hardener paste, item-no. 112P17

PU = 1 tin

Content	Item-No.
1,0 kg	112P38

Sealing-resin compact glue can be tinted with our colouring pastes item-no. 112P36.



Loctite 241



Material

- industrial adhesive

Application

- for medium firm screw fixation up to thread M12

Characteristics

- medium firm fixation, e.g. adapter grub screws

PU = 1 bottle

Content	Item-No.
50 ml	118P35

To open firmly fixated adapter grub screws, use a hot-air gun with normal nozzle, for example item-no. 168P42.



Loctite 601



Material

- industrial adhesive for metal (steel)

Application

- for press fits and clearance fits

Characteristics

- bonds metal- and steel parts with gaps of up to 0,1 mm

PU = 1 bottle

Content	Item-No.
50 ml	118P36



Loctite 245



Material

- industrial adhesive

Application

- for medium firm screw fixation up to thread M80

PU = 1 tube

Content	Item-No.
50 ml	118P37



Lamellar Shellac

Material

- resin insect secretion of Kerria Lacca
- natural product

Application

- suitable for lacquering and impregnating of leather

Characteristics

- solves well in ethyl alcohol (spirit)
- UV-resistant
- provides high-gloss surfaces

PU = 1 pack

Content	Item-No.
500 g	117P1

Depending on mixture and concentration, lighter and darker leather lacquers can be produced.



Acrylic Lacquer Spray



Material

- coloured acrylic lacquer spray

Application

- suitable for retroactive colorisation and varnishing of prosthetic sockets and evening-ups of cosmesis

Characteristics

- high opacity
- suitable for various materials
- quick-drying

PU = 1 tin

Content	Colour	Item-No.
400 ml	dark brown	117P5
400 ml	peach	117P7
500 ml	clear/bright	117P8

Celluloid Shavings



Material

- milled celluloid

Application

- suitable for manufacturing of celluloid lacquer (plaster-insulating lacquer)

Characteristics

- to dissolve use R + L solvent item-no. 116P2

PU = 1 bag

Content	Item-No.
1,0 kg	118P8A

Depending on mixture and concentration, thicker or thinner lacquers can be produced.



Sintering Powder „Orthosint“



Material

- polyethylene (PE)
- colour: peach

Application

- suitable for synthetic coatings in fluidised bed sintering processes for aluminum insoles and soles

Characteristics

- fluidised bed sinter coatings feature following benefits: excellent corrosion-resistance, high impact-, abrasion- and wear resistance, smoothly gliding surfaces, physiological safety, easy cleaning
- minimum heating temperature of metal pieces depending on their thickness 180-220 °C

PU = 1 pack

Content	Item-No.
5,0 kg	112P30/H

Other RAL coded colours are available, subject to a minimum order of 20 kg!

PVC Shrink Tubing



Material

- soft-PVC
- thermoplastic cover material
- colour: peach

Application

- corrosion protection of steel braces

Characteristics

- shrinkage approx. 50 % under heat

PU = 50 metres

before shrinking	after shrinking	Item-No.
14 mm	7 mm	110P16/7
24 mm	12 mm	110P16/12
32 mm	16 mm	110P16/16
60 mm	30 mm	110P16/30

Use hot air gun item-no. 168P27.

Plaster



Plaster

Many individual patient solutions in orthopaedic technology, such as the prosthetic socket design or the casting for an orthosis begin with taking plaster casts (negative model) and the manufacture of positive models. In order to obtain an optimal result for the later fit and thus acceptance by the patient as well, manual dexterity and the use of high-quality materials is indispensable!

Plaster bandages as well as model plaster and plaster of Paris (= POP) are used. Synthetic plasters are mainly used in moldmaking. It is important that the plaster used has a porous structure but is still finegrained. Good drying characteristics are also important to allow a rapid exact and safe subsequent processing.



On the following pages you will find our diversified range of products such as plaster bandages, model plaster and synthetic plaster as well as the required equipment for processing, e. g. plaster insulating cream, body production stochinette, indelible pencils and fillers. You can download the corresponding safety data sheets for products that have to be labeled via our homepage, or we would be glad to forward them upon written request or requests made by phone.

Plasters have the tendency to absorb humidity and must therefore be stored in reclosable, moisture-tight receptacles only. Any absorbed humidity prolongs the setting time. Plaster silos are most suitable. If at all, plaster drawers should only be used for storing plasters with a high consumption. In this case, the absorption of humidity can be prevented by using a foldable cover. Please clean all containers with a dry cloth prior to refilling them with plaster. Even the least remaining plaster powder may "vaccinate" the new plaster and modify its properties.



Stucco

- Material**
- calcium sulfate semi-hydrate
- Application**
- universal applications
 - for pouring out negative plaster moulds
- Characteristics**
- quick hardening

PU = 1 bag

Content	Item-No.
25,0 kg	112P42/25
40,0 kg	112P42/40

I If the stucco plaster is mixed with warm water, hardening will be faster; cold water will delay the hardening process. If lots of plaster is used with little water, a sturdy and hard plaster model will be created. If more water is used, the hardened plaster will be softer and therefore easier for modeling. The optimal temperature for drying plaster cast models is between 50-55 °C.



Casting Plaster „Alabaster“

- Material**
- calcium sulfate semi-hydrate
 - finely ground
- Application**
- suitable for all modeling tasks
- Characteristics**
- high strength
 - high degree of whiteness and pureness

PU = 1 bag

Content	Item-No.
25,0 kg	112P43/25
40,0 kg	112P43/40

I If the casting plaster is mixed with warm water, hardening will be faster; cold water will delay the hardening process. If lots of plaster is used with little water, a sturdy and hard plaster model will be created. If more water is used, the hardened plaster will be softer and therefore easier for modeling. The optimal temperature for drying plaster cast models is between 50-55 °C.



Drying hose


Material

- rubber

Application

- air-permeable hose for drying plaster models

Item-No.
99P23

 Close the end of the hose and tape it to the metal rod when pouring out the plaster model. After hardening at the end of the hose, drain the model with compressed air.



Cellacast Xtra

Material

- glass fiber fabric impregnated with polymethane resin

Application


- to secure PETG-check sockets
- for light supporting bandages with high stability

Characteristics

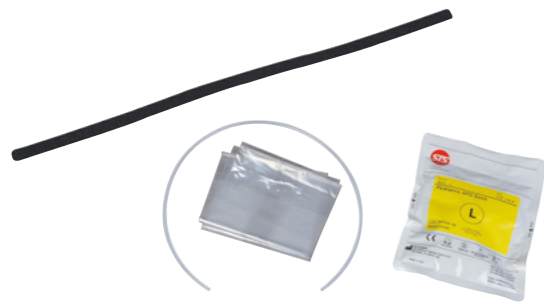
- transverse and diagonal elongation
- bonds very well with PETG
- hardens completely with water / humidity addition

PU = 10 pieces in a box

Length x Width	Colour	Item-No.
3,6 m x 50 mm	creme	99P40/5
3,6 m x 75 mm	creme	99P40/7,5
3,6 m x 100 mm	creme	99P40/10
3,6 m x 125 mm	creme	99P40/12,5
3,6 m x 50 mm	blue	99P41/5
3,6 m x 75 mm	blue	99P41/7,5
3,6 m x 100 mm	blue	99P41/10
3,6 m x 125 mm	blue	99P41/12,5
3,6 m x 50 mm	orange	99P42/5
3,6 m x 75 mm	orange	99P42/7,5
3,6 m x 100 mm	orange	99P42/10
3,6 m x 125 mm	orange	99P42/12,5
3,6 m x 50 mm	yellow	99P43/5
3,6 m x 75 mm	yellow	99P43/7,5
3,6 m x 100 mm	yellow	99P43/10
3,6 m x 125 mm	yellow	99P43/12,5
3,6 m x 50 mm	green	99P44/5
3,6 m x 75 mm	green	99P44/7,5
3,6 m x 100 mm	green	99P44/10
3,6 m x 125 mm	green	99P44/12,5

 The dressings are breathable, x-ray transparent and water resistant in their cured state.

STS Socks



- Material**
- polyester
 - polyurethane

- Application**
- suitable for exact moulding of the lower extremity up to the knee

- Characteristics**
- ideally suitable for quick and clean tasks in hospitals and care facilities
 - very fast curing time (< 5 minutes)
 - very precise moulding results
 - smooth surface, therefore ideally suitable for CAD/CAM
 - size selection according to shoe size

PU = 10 pcs. (airtight packing, incl. protective foil)


Description	Shoe size	Item-No.
Pediatric AFO Casting Socks	17-20	99P16/S
Pediatric AFO Casting Socks	21-26	99P16/M
Pediatric AFO Casting Socks	27-30	99P16/L
Pediatric AFO Casting Socks	31-37	99P16/XL
Bermuda Socks	38-42	99P17/M
Bermuda Socks	43-45	99P17/L
Bermuda Socks	ab 46	99P17/XL



99P16



99P17

 Please note that the sock length depends on foot- and calf volume.

Cellona Plaster Bandage



- Material**
- fixated plaster bandage
 - 17-threaded woven cotton gauze
 - calcium sulfate semi-hydrate plaster coated
 - rolled
 - multiple packed

- Application**
- for manufacturing of all kinds of plaster casts

- Characteristics**
- Cellona plaster bandages soak up moisture rapidly and evenly after only short immersion times
 - the finished dressing is resilient early on and safe for transport after 30 minutes
 - completely cured after 24 hours

PU = 10 pieces in a box

Length x Width	Item-No.
2 m x 80 mm	99P4/8
2 m x 100 mm	99P4/10
2 m x 120 mm	99P4/12
2 m x 150 mm	99P4/15
2 m x 200 mm	99P4/20
3 m x 80 mm	99P5/8
3 m x 100 mm	99P5/10
3 m x 120 mm	99P5/12
3 m x 150 mm	99P5/15
3 m x 200 mm	99P5/20
4 m x 80 mm	99P6/8
4 m x 100 mm	99P6/10
4 m x 120 mm	99P6/12
4 m x 150 mm	99P6/15
4 m x 200 mm	99P6/20

Cellona Plaster Bandage



- Material**
- 4-fold plaster bandage
 - woven cotton gauze
 - calcium sulfate semi-hydrate plaster coated

- Application**
- for manufacturing of all kinds of fixating plaster casts and splints

- Characteristics**
- Cellona plaster bandages soak up moisture rapidly and evenly after only short immersion times
 - the finished dressing is resilient early on and safe for transport after 30 minutes
 - completely cured after 24 hours

PU = 1 piece in dispenser box

Length x Width	Item-No.
20 m x 20 cm	99P7/20



Cellona Bandage Off-Cuts

Material

- woven cotton gauze
- calcium sulfate semi-hydrate plaster coated

Application

- to seal and to reinforce plaster casts and for preparing measures
- for casting plaster casts

Characteristics

- Cellona bandages off-cuts soak up moisture rapidly and evenly after only short immersion times
- the finished dressing is resilient early on and safe for transport after 30 minutes
- completely cured after 24 hours

PU = 5 kg in a box

Width	Item-No.
20 cm	99P8



Latex Insulating Bag

Material

- natural rubber

Application

- for insulation of damp plaster moulds for Prepreg processes and the making of plaster casts

Characteristics

- extremely elastic and sturdy

PU = 1 piece

Width x Length	Size	Item-No.
4 x 17 cm	small	119P2/S
7,5 x 20 cm	medium	119P2/M
10 x 27,5 cm	large	119P2/L



Skin-Care Washing Lotion

- Washing lotion for cleaning stump skin and liner, as well for prostheses and orthoses
- odourless (fragrance-free)
- dermatological tested
- antibacterial

PU = 1 bottle with pump vaporizer

Content	Item-No.
300 ml	10H2



Cellona Skin Protection Cream

Material

- oil-in-water-emulsion with oil restoring ingredients

Application

- hand protection before, during and after plaster tasks

Characteristics

- protection and skin care for heavily stressed skin due to permanent contact with water and plaster

PU = 1 tin

Content	Item-No.
100 ml	99P15



Plaster Insulating Cream

Material

- based on vaseline

Application

- for insulation of body areas before taking plaster casts

Characteristics

- colourless
- skin-friendly
- pleasant smell

PU = 1 tin

Content	Item-No.
1,0 kg	113P9



Skin Protection Stockinette Set (AK-Amputation)

Material

- 100 % cotton (CO)

Application

- for insulating AK-amputees before taking plaster casts

Characteristics

- set tricot fabric for body protection and residual leg protection

PU = package with 6 sets

Width x Length (length of leg)	Item-No.
approx. 30 x 16 cm	99P10/1
approx. 30 x 32 cm	99P10/2
approx. 38 x 16 cm	99P10/3
approx. 38 x 32 cm	99P10/4

Body Protection Stockinette



Material

- 95 % cotton and 5 % elasthane
- colour: natural

Application

- depending on fabric width for insulating arms, lower and upper leg before taking plaster casts

Characteristics

- especially elastic and supple

PU = 1 roll (25 m)

Width	Item-No.
9 cm	99P12/9
15 cm	99P12/15
20 cm	99P12/20



ListraFast tubular bandage

permanently elastic tubular bandage

Material

- 92,0 % viscose, 3,0 % polyamide and 5,0 % lycra

Application

- for insulating of hip disarticulations before taking plaster casts
- suitable to be worn as hygienic stocking in night splints as well as orthotic stocking

Characteristics

- permanently elastic tubular bandage for support, relief and compression

PU = 1 roll á 10 m

Width	Description	Colour	Item-No.
3,75 cm	for small extremities	red	99P14/3,75
5,5 cm	for medium extremities	green	99P14/5,5
8,5 cm	for large extremities	blue	99P14/8,5
12,5 cm	for extra large extremities	yellow	99P14/12,5
18,5 cm	for torsos	beige	99P14/18,5



Undershirt for Spinal Orthoses

T-Shirt



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation
- insulation of skin surface during application of moulding technique

Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin


Material

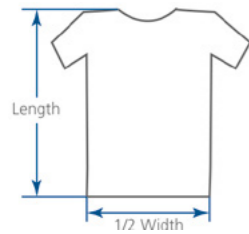
- 100 % combed cotton, Sanitized treated

PU = 1 piece

Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T20/XS
S	66 cm	28 cm	145T20/S
M	69 cm	30 cm	145T20/M
L	72 cm	32 cm	145T20/L
XL	75 cm	34 cm	145T20/XL
XXL	77 cm	37 cm	145T20/XXL
XXXL	79 cm	40 cm	145T20/XXXL

*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

 Sanitized® treatment prevents odor-creating bacteria growth!
Sanitized products are silver-free!



Undershirt for Spinal Orthoses

Tanktop



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation
- insulation of skin surface during application of moulding technique

Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin


Material

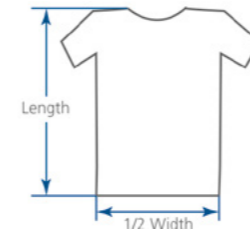
- 100 % combed cotton, Sanitized treated

PU = 1 piece

Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T21/XS
S	66 cm	28 cm	145T21/S
M	69 cm	30 cm	145T21/M
L	72 cm	32 cm	145T21/L
XL	75 cm	34 cm	145T21/XL
XXL	77 cm	37 cm	145T21/XXL
XXXL	79 cm	40 cm	145T21/XXXL

*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

 Sanitized® treatment prevents odor-creating bacteria growth!
Sanitized products are silver-free!





Undershirt for Spinal Orthoses

with sleeves



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation
- insulation of skin surface during application of moulding technique

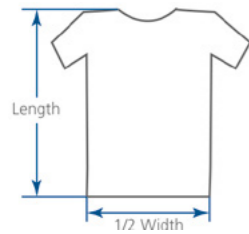
Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

Material

- 100 % combed cotton, Sanitized treated

PU = 1 piece



Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T22/XS
S	66 cm	28 cm	145T22/S
M	69 cm	30 cm	145T22/M
L	72 cm	32 cm	145T22/L
XL	75 cm	34 cm	145T22/XL
XXL	77 cm	37 cm	145T22/XXL
XXXL	79 cm	40 cm	145T22/XXXL

*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

Sanitized® treatment prevents odor-creating bacteria growth!
Sanitized products are silver-free!



Undershirt for Spinal Orthoses

without sleeves



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation
- insulation of skin surface during application of moulding technique

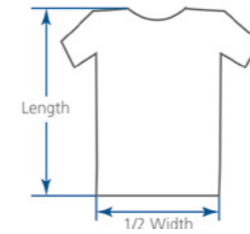
Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

Material

- 100 % combed cotton, Sanitized treated

PU = 1 piece



Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T23/XS
S	66 cm	28 cm	145T23/S
M	69 cm	30 cm	145T23/M
L	72 cm	32 cm	145T23/L
XL	75 cm	34 cm	145T23/XL
XXL	77 cm	37 cm	145T23/XXL
XXXL	79 cm	40 cm	145T23/XXXL

*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

Sanitized® treatment prevents odor-creating bacteria growth!
Sanitized products are silver-free!



Disposable Latex Gloves IC

Material

- natural rubber

Application

- examination glove

Characteristics

- non-sterile
- eudermic
- powder-free
- with synthetic internal coating

Size	Sales unit	Item-No.
S = 6 - 7	100 pcs	12P18/S
M = 7 - 8	100 pcs	12P18/M
L = 8 - 9	100 pcs	12P18/L
X = 9 - 10	90 pcs	12P18/XL

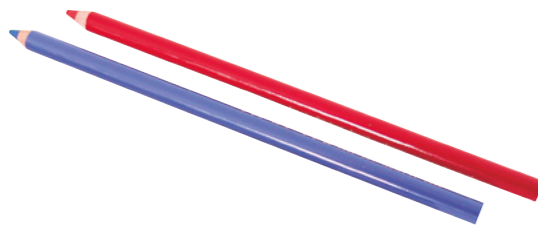


Indelible Pencil

- Material**
- document indelible pencil
 - brand product
 - colour: blue
- Application**
- for marking damp plaster casts and -moulds
 - suitable for skin contact
- Characteristics**
- waterproof
 - break-proof pencil lead due to special glue-lamination

PU = 12 pcs in a box

Item-No.
99P20



Grease Pencil

- Material**
- waterproof coloured pencil
 - brand product
- Application**
- for marking wet plaster casts and plaster moulds
- Characteristics**
- writes on very smooth materials (e.g. plastic sheets)

PU = 12 pcs in a box

Colour	Item-No.
red	99P21/R
blue	99P21/B



Plaster Apron

- Material**
- durable nylon fabric with PVC-coating on both sides
- Application**
- work protection during plaster casting
- Characteristics**
- acid resistant, very tear resistant
 - with brass eyelets and tie belts

PU = 1 piece

Width x Height	Item-No.
75 x 100 cm	12P20



Vermiculite Castfiller

- Material**
- aluminum-iron-magnesium-silicate
 - colour: sand
- Application**
- insulating-, absorbing- and padding material of hazardous materials
 - filling material to be mixed into plaster

- Characteristics**
- low weight

PU = 100 liter bag

Grit	Item-No.
2 - 3 mm	99P60



Perlite Castfiller

- Material**
- perlite, volcanic glass
 - colour: white to grey-white

- Application**
- insulating-, absorbing- and padding material of hazardous materials
 - filling material to be mixed into plaster

- Characteristics**
- low weight

PU = 150 liter bag

Grit	Item-No.
0 - 3 mm	99P65/150



Podotrack


- Material**
- patented imprinting measurement chart for quick foot pressure analysis

- Application**
- imprinting measurement chart for early detection of foot pressure problems, such as for example flat-, splay-, hollow- or club feet, usable for diabetic or rheumatic foot syndrome
 - for diagnostic documentation by professionals in orthopaedics, podiatry or sports science

- Characteristics**
- simple and hygienic use, transportable and usable anywhere; for static and dynamic foot pressure analyses

PU = 100 pieces

Dimensions L x W	Item-No.
390 x 160 mm	98P8

 Please follow the instruction manual!

Foot Imprinting Kit



Material

- foot impression tool for foot / blue print analysis

Application

- imprinting tool for early detection of foot pressure problems, such as for example flat-, splay-, hollow- or club feet, usable for diabetic or rheumatic foot syndromes
- for diagnostic documentation by professionals in orthopaedics, podiatry or sports science

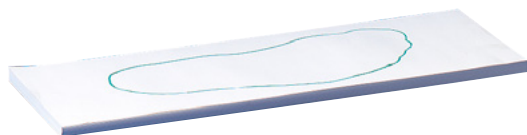
Characteristics

- includes ink roller, ink, circumference marker, foot imprinting pad (100 sheets) and rubber plate

PU = 1 set

	Item-No.
	98P4

Foot Imprinting Paper



Material

- paper
- weight: 80 g/m²
- colour: white

Application

- replacement part for foot imprint device item-no. 98P4

PU = pad with 100 sheets

Length x Width	Item-No.
380 x 165 mm	98P5/G
400 x 140 mm	98P5

Foot Impression Foam, Normal Size



Material

- impression foam box
- foamed FCKW-free

Application

- for simple and time-saving foot impressions

Characteristics

- up to max. shoe size 46

PU = 50 pairs

Foam size L x W x H	Item-No.
310 x 150 x 75 mm	98P1

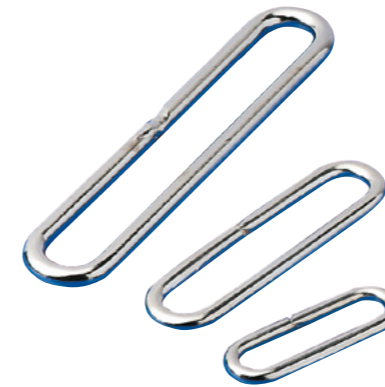
Small Parts



For your convenience, we offer a wide range of high-quality and functional materials for your daily business in your workshop. Orthopaedic technicians and truss makers will find a wide variety of products indispensable for the manufacture of prostheses, orthoses and bandages on the following sides. This will start with the production process of products for the individual manufacturing of bodices, corsetry and seat seating shells (e. g. buckles, straps and latches).



Steel Loop, oval



Material

- steel
- nickel-plated
- welded

Application

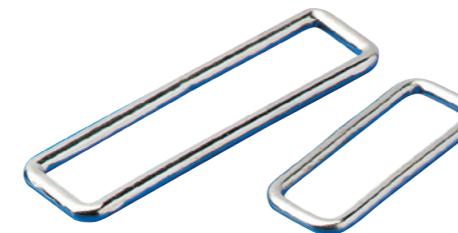
- deflector for belt connections

PU = 20 pcs and 100 pcs

Inner width	Wire thickness	Item-No.
18 mm	1,8 mm	42P2/18
20 mm	1,8 mm	42P2/20
25 mm	2,0 mm	42P2/25
30 mm	2,0 mm	42P2/30
35 mm	2,0 mm	42P2/35
45 mm	2,4 mm	42P2/45
50 mm	2,6 mm	42P2/50

Steel Loop, rectangular

stable version



Material

- steel
- nickel-plated
- welded

Application

- deflector for belt connections

PU = 20 pcs and 100 pcs

Inner width	Wire thickness	Item-No.
20 mm	2,0 mm	42P6/20
25 mm	2,4 mm	42P6/25
30 mm	2,5 mm	42P6/30
35 mm	2,5 mm	42P6/35
40 mm	3,0 mm	42P6/40
45 mm	2,6 mm	42P6/45
50 mm	3,0 mm	42P6/50



Steel Loop with Roller, oval

- Material**
- steel
 - nickel-plated
 - welded

- Application**
- deflector for belt connections

- Characteristics**
- the movable roller reduces the friction resistance of the belt strap during closing

PU = 20 pcs and 100 pcs

Inner width	Wire thickness	Item-No.
30 mm	2,0 mm	42P3/30
35 mm	2,0 mm	42P3/35
45 mm	2,4 mm	42P3/45
50 mm	2,6 mm	42P3/50



Steel Loop

- Material**
- steel
 - nickel-plated
 - welded

PU = 20 pcs and 100 pcs

Light width	Item-No.
16 mm	42P4/16
18 mm	42P4/18
20 mm	42P4/20
22 mm	42P4/22
25 mm	42P4/25



Steel Loop, halfround

- Material**
- steel
 - nickel-plated
 - welded

- Application**
- deflector for narrow lacings

PU = 20 pcs and 100 pcs

Diameter	Item-No.
12 mm	42P5/12
22 mm	42P5/22



Single Prong Buckle with Roller

- Material**
- steel
 - nickel-plated
 - welded

- Application**
- for manufacturing of closures for orthopaedic shoes

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	40P3/20
22 mm	40P3/22
25 mm	40P3/25
30 mm	40P3/30
40 mm	40P3/40
50 mm	40P3/50



Two Prong Buckle with Prong Cover

- Material**
- steel
 - nickel-plated
 - welded

- Application**
- for fixation of thin and adjustable belts

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	40P18/20



Three Prong Buckle with Prong Cover

- Material**
- steel with Miralloy-coating
 - nickel-free
 - welded

- Application**
- for fixation of length adjustments for thin, medium firm, elastic and non-elastic belt straps

PU = 20 pcs and 100 pcs

Diameter	Item-No.
35 mm	40P19/35
45 mm	40P19/45

 Use together with support strap item-no. 53T6/35H and 53T6/45H.



Clip Buckle with Loop

- Material**
- steel with Miralloy-coating
 - nickel-free

- Application**
- suspender buckle for fixation of thin and elastic belts

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	44P1/20
30 mm	44P2
35 mm	44P3



Clamp Buckle with Prongs

- Material**
- steel
 - nickel-free

- Application**
- for fixation of length adjustments for thin, medium firm, elastic and non-elastic belt straps

PU = 20 pcs and 100 pcs

Diameter	Item-No.
23 mm	44P8/23



Suspender Clip

- Material**
- steel
 - nickel-free

- Application**
- for fixation of the length adjustment of suspenders

PU = 50 pcs and 100 pcs

Diameter	Item-No.
18 mm	44P12/18
30 mm	44P12/30



Loop with roll

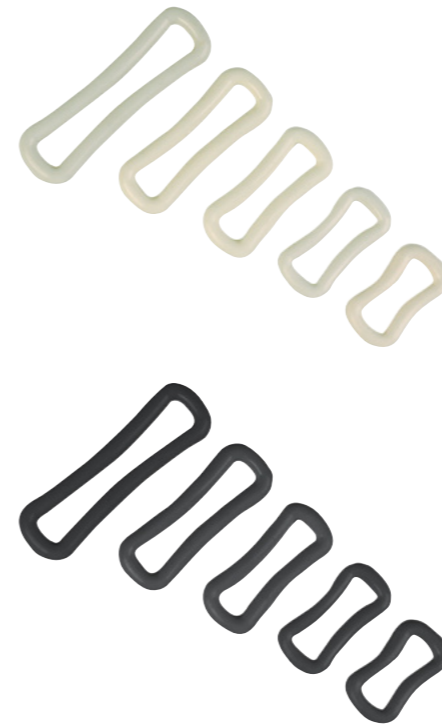
- Material**
- Iron nickel-plated
 - strong version

- Application**
- Deflector for belt connections

- Properties**
- the movable roller reduces the friction resistance of the belt strap during closing

Sales unit = 100 pieces

Light width	Item-No.
25 mm	42P7/25



Plastic Loop

- Material**
- plastic

- Application**
- for deflection of belts in two-piece closure systems

- Characteristics**
- the loop is bent inwards and therefore improves straight guidance of the belt strap in the loop

PU = 20 pcs and 100 pcs

Diameter	Colour	Item-No.
20 mm	natural	42P9/20
25 mm	natural	42P9/25
30 mm	natural	42P9/30
38 mm	natural	42P9/38
50 mm	natural	42P9/50
20 mm	black	42P9/20S

Plastic Loop



Diameter	Ø Riveting hole	Colour	Item-No.
25 mm	4 mm	white	43P3/25
25 mm	4 mm	blue	43P3/25B
25 mm	4 mm	red	43P3/25R
25 mm	4 mm	black	43P3/25S
35 mm	4 mm	white	43P3/35
35 mm	4 mm	blue	43P3/35B
35 mm	4 mm	red	43P3/35R
35 mm	4 mm	black	43P3/35S
50 mm	4 mm	white	43P3/50
50 mm	4 mm	blue	43P3/50B
50 mm	4 mm	red	43P3/50R
50 mm	4 mm	black	43P3/50S

Steel Loop



Diameter	Ø Riveting hole	Colour	Item-No.
20 mm	4 mm	white	43P5/20
25 mm	4 mm	white	43P5/25
25 mm	4 mm	blue	43P5/25B
25 mm	4 mm	red	43P5/25R
30 mm	4 mm	white	43P5/30
35 mm	4 mm	white	43P5/35
35 mm	4 mm	blue	43P5/35B
35 mm	4 mm	red	43P5/35R
50 mm	4 mm	blue	43P5/50B
50 mm	4 mm	red	43P5/50R
50 mm	4 mm	black	43P5/50S

Steel Loop



- Material**
- strap: plastic
 - rivet hole and roller: steel, nickel-plated
 - colour: white

- Application**
- for deflection of belts in one-piece closure systems

- Characteristics**
- the movable roller reduces the friction resistance of the belt strap during closing

PU = 20 pcs and 100 pcs

Diameter	Ø Riveting hole	Item-No.
35 mm	4 mm	43P8/35
50 mm	4 mm	43P8/50

 The riveting loop can be connected to the work piece with a Hessing's screw item-no. 30P11 or a tubular rivet item-no. 66P3.

Clip Buckle, synthetic material

small, flat type



- Material**
- polyoxymethylene (POM)

- Application**
- clip buckle suitable from use with polyester webbing item-no. 55T30 like a belt buckle

- Characteristics**
- one-piece system for fixation of length-variable strap connections by clip mechanism

Inner width	Strap passage	Color	Item-No.
25 mm	1 mm	black	44P13/S
25 mm	1 mm	white	44P13/W

 Optimally suitable for closing system for braces.



Clip Closure, Plastic

Material

- plastic
- colour: black

Application

- the clip buckle can be used like a regular belt buckle

Characteristics

- one-piece system for fixating length-adjustable belt connections by clamping mechanism

PU = 50 pcs and 100 pcs

Diameter	Belt opening	Item-No.
25 mm	3 mm	44P15/25
30 mm	3 mm	44P15/30
40 mm	3 mm	44P15/40
50 mm	3 mm	44P15/50



Clip Closure, Plastic

Material

- plastic

Application

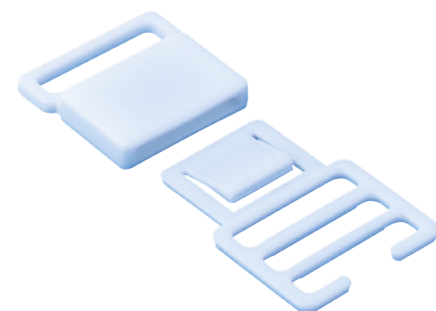
- two-piece system to close length adjustable belt connections

Characteristics

- by threading the belt back through the outer bar, the length adjustment is fixed (i.e. cannot move any more)

PU = 50 pcs and 100 pcs

Diameter	Colour	Item-No.
30 mm	black	48P1/30S



Clip Closure, Plastic

Material

- plastic
- colour: white

Application

- two-piece system to close length adjustable belt connections

Characteristics

- by threading the belt back through the outer bar, the length adjustment is fixed (i.e. cannot move any more)

PU = 50 pcs and 100 pcs

Diameter	PU	Item-No.
25 mm	50 pcs	48P15
20 mm	100 pcs	48P20

 Suitable for manufacturing of hip abduction pants.



Fidlock Magnetic Closure for orthoses

Material

- synthetic material and stainless steel
- weight: 22 g
- load capacity: 70 kg
- magnetic flux density: in closed condition approx. 4mT at a distance of 25,4 mm to the closure

Application

- two-piece system to close strap connections of orthoses

Characteristics

- easy to handle with one hand, both sections close automatically
- easy opening by pulling the zipper

PU = 1 pc.

Attention: Persons and patients with heart pacemakers or other implanted electronic systems must obey the warnings of their supplier about handling magnetic material.

Light width	Dimensions L x W	Strap passage	Item-No.
25 mm	74 x 33 x 13 mm	2 mm	44P20/25



Lace and Cord Stop, Plastic

Material

- plastic
- colour: white

Application

- for fixating cords

Characteristics

- fixation by inner spiral spring

PU = 50 pcs and 100 pcs

Opening	Item-No.
8 mm	48P10



Steel Rivet

- Material**
- steel
 - not processed


Application

- for rivet connections of iron-based metals

- Characteristics**
- with flat head

PU = 1000 pieces

Diameter x Length	Item-No.
3,0 x 15 mm	36P1/3x15
3,0 x 20 mm	36P1/3x20
3,0 x 25 mm	36P1/3x25
4,0 x 20 mm	36P1/4x20
4,0 x 25 mm	36P1/4x25
4,0 x 30 mm	36P1/4x30

 Please see our catalogue „Machines and Tools“, chapter „Tools“ for suitable riveting tools.



Steel Rivet

- Material**
- steel
 - zinc-plated


Application

- for rivet connections of iron-based metals

- Characteristics**
- with flat head

PU = 1000 pieces

Diameter x Length	Item-No.
3,0 x 15 mm	36P5/3x15
3,0 x 20 mm	36P5/3x20

 Please see our catalogue „Machines and Tools“, chapter „Tools“ for suitable riveting tools.



Copper Rivet

- Material**
- copper alloy

Application

- for riveting connections between steel and leather

- Characteristics**
- with flat head

PU = 1000 pieces

Thickness x Length:	Item-No.
2.6 x 8 mm	36P2/2x8
2.6 x 10 mm	36P2/2x10
3.0 x 6 mm	36P2/3x6
3.0 x 12 mm	36P2/3x12
3.0 x 15 mm	36P2/3x15
3.0 x 18 mm	36P2/3x18
3.0 x 20 mm	36P2/3x20
3.0 x 25 mm	36P2/3x25
4.0 x 20 mm	36P2/4x20
4.0 x 25 mm	36P2/4x25

 Please see our catalogue „Machines and Tools“, chapter „Tools“ for suitable riveting tools.



Aluminum Rivet

- Material**
- aluminum alloy

Application

- for riveting connections between synthetics

- Characteristics**
- with flat head

PU = 1000 pieces

Diameter x Length	Item-No.
2,5 x 6 mm	36P3/2x6
2,5 x 10 mm	36P3/2x10
3,0 x 6 mm	36P3/3x6
3,0 x 15 mm	36P3/3x15
3,0 x 16 mm	36P3/3x16
3,0 x 20 mm	36P3/3x20
3,0 x 25 mm	36P3/3x25

 Please see our catalogue „Machines and Tools“, chapter „Tools“ for suitable riveting tools.



Round Head Nut for Protector Screw

Material


- aluminum alloy

Application

- for screw connections of braces during trial phase

PU = 20 pcs and 100 pcs

Thread diameter x Outer diameter	Item-No.
M3 x 10 mm	34P8

 For tightening the screws, use our pin wrench item-no. 165P5.

Knurled Nut



Material


- steel
- not processed

Application

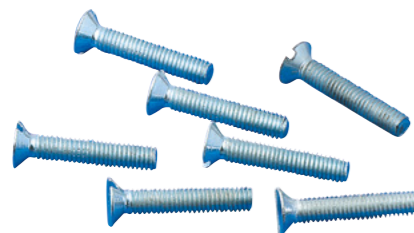
- for hand-tightening screw connections of braces during trial phase

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Height	Item-No.
M3 x 12 x 7 mm	34P6

 Use the testing screw item-no. 30P14.

Testing Screw/Counter Sink Head



Material

- steel
- zinc-plated

Application

- for screw connections of braces during trial phase

PU = 100 pieces

Thread diameter x Length	Item-No.
M3 x 16 mm	30P14

 Further sizes available upon request.



T-Nut

Material

- steel
- zinc-plated

Application

- T-Nut with teeth for driving into plywood or multiplex-boards

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 15 x 6 mm	34P4/4
M5 x 17 x 8 mm	34P4/5
M6 x 17 x 8 mm	34P4/6
M8 x 22 x 11 mm	34P4/8
M10 x 25 x 12 mm	34P4/10

Insert Nut



Material

- brass

Application

- thread insert for thermoplastic synthetics

Characteristics

- edged
- slotted
- with projection

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 7 x 4 mm	34P3

Insert Nut



Material

- brass

Application

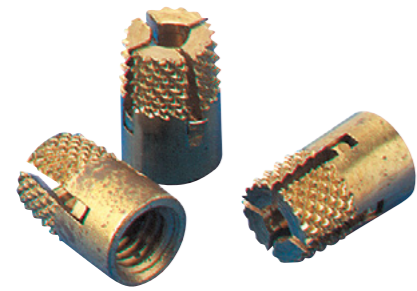
- thread insert for thermoplastic synthetics

Characteristics

- edged
- slotted
- toothed

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 6,5 x 5 mm	34P2/4
M4 x 6,5 x 8 mm	34P2/8



Insert Nut

Material
• brass

Application
• thread insert for thermoplastic synthetics

Characteristics
• edged
• slotted
• without projection

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 5 x 8 mm	34P1



Lamination Disk

Material
• stainless steel

Application
• to anchor in silicone (HTV), Prepreg and laminating resins

Characteristics
• with 3 slots
• corrosion-resistant

PU = 1 piece

Thread x Head diameter x Length	Item-No.
M4 x 15 x 4.8 mm	34P9



Insert Nut

Material
• V2A steel

Application
• for anchoring of screw-connections in Prepreg and resin cast laminates

Characteristics
• edged
• with wide head end
• corrosion-resistant

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 9 x 4 mm	34P5



Hessing Screw, steel

Material
• steel
• nickel-plated

Application
• for screw connections in orthopaedic technology

Characteristics
• with wide head end

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M3 x 8 x 10 mm	30P11/3
M3,5 x 8 x 12 mm	30P11/3,5
M4 x 10 x 8 mm	30P11/4
M4 x 10 x 10 mm	30P11/4A
M4 x 10 x 12 mm	30P11/4B
M4 x 10 x 14 mm	30P11/4C
M5 x 12 x 15 mm	30P11/5



Plastic Screw


Material
• polyoxymethylene (POM)
• colour: off-white

Application
• for waterproof screw connections in orthopaedic technology

Characteristics
• high strength
• with wide head end

PU = 10 pieces

Thread diameter x Head diameter x Length	Item-No.
M4 X 10 mm x 6 mm	30P21/4x6
M4 x 10 mm x 7 mm	30P21/4x7
M4 x 10 mm x 9 mm	30P21/4x9

 Our recommendation for screw connections in Streifyflex.



Plastic (POM) Insert Nut

Material

- polyoxymethylene (POM)
- colour: off-white

Application


- for waterproof screw connections in orthopaedic technology
- suitable for screw item-no. 30P21

Characteristics

- high strength
- with wide head end

PU = 10 pieces

Head diameter	Thread size	Item-No.
10 mm	M4	30P22/4

 Our recommendation for screw connections in Streifyflex.



Eyelet

Material


- steel
- nickel-plated

Application

- for all kinds of lacings (e.g. leather thigh cuffs)

PU = 250 pcs and 1000 pcs

Outer diameter x Bore diameter x Thickness	Item-No.
7 x 4 x 4,5 mm	60P4
8 x 4 x 5 mm	60P5
9 x 4 x 5 mm	60P6/VN
10 x 5 x 5,5 mm	60P8
12 x 6 x 5,5 mm	60P10

 Please use the matching base rings item-no. 61P... for the eyelets. Die item-no. W60P4, W60P5, W60P6, W60P8 and W60P10



Eyelet

Material


- brass
- partially with coloured lacquer coating resp. nickel-plated

Application

- for all kinds of lacings (e.g. supporting corsets)

PU = 250 pcs and 1000 pcs

Outer diameter x Bore diameter x Thickness	Colour	Item-No.
9 x 4 x 5 mm	natural	60P7/BLA
9 x 4 x 5 mm	peach	60P7/H
9 x 4 x 5 mm	black	60P7/S
9 x 4 x 5 mm	white	60P7/W
9 x 4 x 5 mm	white bronze	60P7/VN
10 x 5 x 5,5 mm	natural	60P9/BLA
10 x 5 x 5,5 mm	peach	60P9/H
10 x 5 x 5,5 mm	nickel-plated	60P9/VN
15 x 8 x 6 mm	nickel-plated	60P12/VN

 Please use the matching base rings item-no. 61P... for the eyelets. Die item-no. W60P6, W60P8 and W60P12



Base Ring for Eyelet

PU = 250 pcs and 1000 pcs

Suitable for eyelet	Colour	Item-No.
60P10	steel nickel-plated	61P10
60P12	brass nickel-plated	61P12
60P6, 60P7	brass nickel-plated	61P7/VN
60P8, 60P9	brass nickel-plated	61P9/VN
60P7	brass	61P7/BLA

 Die item-no. W60P6, W60P8, W60P10 and W60P12



Die for Hook

- Material**
- steel
 - hardened

- Application**
- for inserting of eyelets and base rings
 - for eyelet punch press item-no. 168P1

- Characteristics**
- 2-parts

PU = 1 set

Suitable for eyelet	Item-No.
60P4	W60P4
60P5	W60P5
60P6, 60P7	W60P6
60P8, 60P9	W60P8
60P10	W60P10
60P12	W60P12



Lacing Hook

- Material**
- steel
 - nickel-plated resp. lacquered

- Application**
- for lacing bars in orthopaedic technology

PU = 250 pcs and 1000 pcs

Head size	Colour	Item-No.
8,5 x 7,6 mm	nickel-plated	62P6
9,0 x 10 mm	peach	62P2/H
9,0 x 10 mm	nickel-plated	62P5

 Please see our catalogue „Machines and Tools“, chapter „Orthopaedic Shoe Technology“ for suitable eyelet tools. Die item-no. W62P6 and W62P5



Die for Lacing Hook

- Material**
- steel
 - hardened

- Application**
- for inserting lacing hooks
 - for eyelet punch press item-no. 168P1

- Characteristics**
- 2-parts

PU = 1 set

suitable for hook eye	Item-No.
62P6	W62P6
62P2	W62P2




Snap Fastener, 4-parts

- Material**
- brass
 - nickel-plated

- Application**
- for all kinds of closures

PU = 200 pcs

Head diameter	Item-No.
13 mm	64P12
15 mm	64P13

 Please see our catalogue „Machines and Tools“, chapter „Orthopaedic Shoe Technology“ for suitable snap fastener tools. Die item-no. W64P12 and W64P13



Die for Snap Fastener

- Material**
- steel, hardened

- Application**
- insertion of lacing hoops
 - for eyelet punch press item-no. 168P1

- Characteristics**
- 4-parts

PU = 1 set

Snap rivet	Item-No.
64P12	W64P12
64P13	W64P13




Metal Lace Tip

- Material**
- steel sheet
 - nickel-plated

- Application**
- for securing lace ends

PU = 500 or 1000 pieces

Dimensions L x W	Item-No.
10 x 4 mm	67P2/10x8

 Please use the matching lace tip pliers item-no. 171P14 for the metal lace tips. For laces, see our catalogue "Materials and Equipment", chapter "Textiles".



Lace Tip Pliers

- with insert for metal lace tip item-no. 67P2/10x8

Features	Item-No.
with insert	171P14



Tubular Rivet with Open Stem

- Material**
- iron or brass
 - nickel-plated

- Application**
- for riveting connections in leather, textile and thin synthetics

PU = 500 pcs

Head diameter x Shank diameter x Lug	Description	Material	Item-No.
6 x 3 x 3 mm	tubular rivet cap	iron	66P10/O-1
6 x 2,3 x 6 mm	tubular rivet stem	iron	66P10/U-1
9 x 3,8 x 3 mm	tubular rivet cap	iron	66P20/O-1
10 x 3 x 10 mm	tubular rivet stem	iron	66P20/U-1
11 x 4 x 3 mm	tubular rivet cap	brass	66P22/O-1
10 x 3,4 x 9 mm	tubular rivet stem	brass	66P22/U-1
13 x 4 x 4 mm	tubular rivet cap	brass	66P25/O-1
12 x 3,6 x 11 mm	tubular rivet stem	brass	66P25/U-1
13 x 4,2 x 4 mm	tubular rivet cap	iron	66P26/O-1
11 x 3,3 x 11 mm	tubular rivet stem	iron	66P26/U-1

 Please see our catalogue „Machines and Tools“ for suitable rivet tools.



Die for Tubular Rivets with Open Stem

- Material**
- steel
 - hardened

- Application**
- for riveting connections in orthopaedic technology
 - insertion of tubular rivets with open stem
 - for eyelet punch press item-no. 168P1

- Characteristics**
- 2-parts

PU = 1 set

Suitable for tubular rivet	Item-No.
66P10	66P10
66P20	66P20
66P22	66P22
66P25, 66P26	66P25



Tubular Rivet with Closed Stem

- Material**
- iron or brass
 - nickel-plated

- Application**
- for riveting connections in leather, textile and thin synthetics

PU = 500 pcs

Head diameter x Shank diameter x Lug	Description	Material	Item-No.
9 x 3,6 x 3 mm	tubular rivet cap	brass	66P15/O-1
9 x 2,8 x 9 mm	tubular rivet stem	brass	66P15/U-1
13 x 4 x 4 mm	tubular rivet cap	brass	66P30/O-1
13 x 3,5 x 13 mm	tubular rivet stem	brass	66P30/U-1
13 x 4,2 x 4 mm	tubular rivet cap	iron	66P31/O-1
13 x 3,3 x 11 mm	tubular rivet stem	iron	66P31/U-1

 Please see our catalogue „Machines and Tools“ for suitable rivet tools.



Die for Tubular Rivets with Closed Stem

- Material**
- steel
 - hardened

- Application**
- for riveting connections in orthopaedic technology
 - insertion of tubular rivets with closed stem
 - for eyelet punch press item-no. 168P1

- Characteristics**
- 2-parts

PU = 1 set

Suitable for tubular rivet	Item-No.
66P15	66P15
66P30, 66P31	66P30



Lateral Belt Retainer Plate with Screw

- Material**
- steel
 - nickel-plated

- Application**
- for attachment of so-called „Schlesier's bandage“ at the lateral socket wall of above knee prostheses

- Characteristics**
- trochanter plate with three drill-holes for direct attachment to the lateral socket wall

PU = 1 piece

Heel height	Ø Base plate	Item-No.
8 mm	35 mm	8P14



Stabilizing Shackle, flat

- Material**
- stainless steel

- Application**
- traditional trochanter clamp for individual attachment to the lateral socket wall of above-knee prostheses

- Characteristics**
- traditional hanging systems of torso- resp. shoulder belts for fixating above-knee prostheses

PU = 1 piece

Shackle length x Thickness	Item-No.
165 x 3 mm	24P7



Stud Rivet

Material

- plexiglass (PMMA)
- colour: transparent

Application


- for attachment of belts

Characteristics

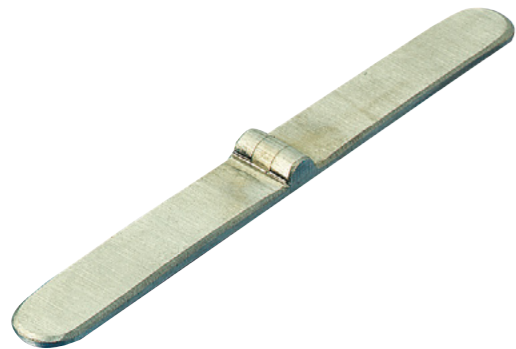
- highly tear- and brake proof
- weather- and age resistant
- corrosion-resistant
- elastic
- impact proof

PU = 10 pieces

Head diameter x Lug diameter x Stem diameter	Lug height	Item-No.
9 x 5 x 4 mm	3 mm	8P16/5
12 x 7 x 5 mm	5 mm	8P16/7
15 x 9 x 5 mm	6 mm	8P16/9

 Easy to process with hot-air gun (nozzle opening 4-8 mm). At approx. 170 °C, the material shrinks and itself forms a round head out of the protrusion of max. 5 mm.

Strap Hinge



Material

- C45-steel
- forged
- quality product, made in Germany

Application

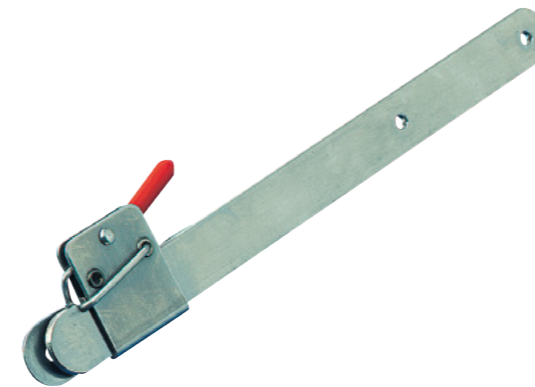
- back hinge for traditional spinal orthoses

Characteristics

- suitable for heavy-duty applications

PU = 1 piece

Length x Width	Item-No.
145 x 16 mm	24P1/2



Bar Lock

Material

- stainless steel

Application

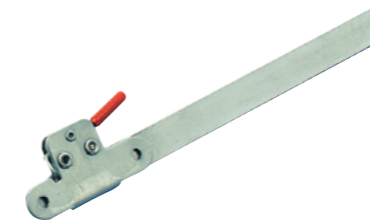
- for individual attachment of closures to spinal orthoses

Characteristics

- fixating corset closure

PU = 1 piece

Length	Side	Item-No.
165 mm	left	24P5/KL
165 mm	right	24P5/KR
180 mm	left	24P5/ML
180 mm	right	24P5/MR
200 mm	left	24P5/NL
200 mm	right	24P5/NR



Baby Bar Lock

Material

- stainless steel

Application

- for individual attachment of closures to spinal orthoses

Characteristics

- fixating corset closure for children's braces

PU = 1 piece

Length	Side	Item-No.
130 mm	right	24P5A



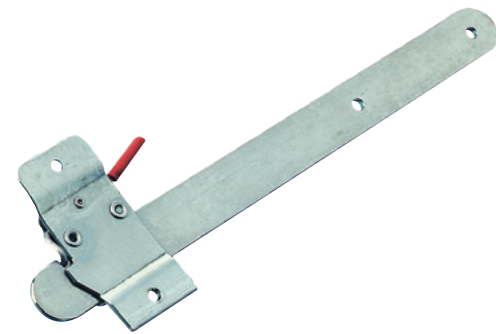
Replacement Cap

Application

- for bar lock item-no. 24P5

PU = 1 piece

Colour	Item-No.
red	24P9



Bar Lock

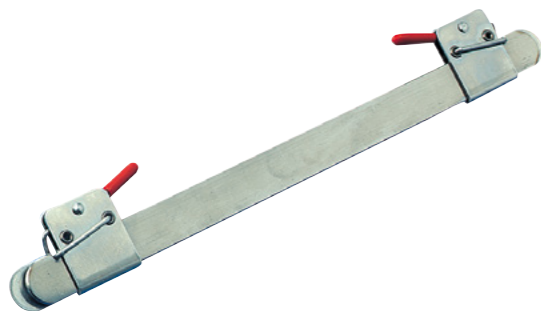
Material
 • stainless steel

Application
 • for individual attachment of closures to spinal orthoses

Characteristics
 • with vertical locking mechanism
 • fixating corset closure

PU = 1 piece

Length	Side	Item-No.
180 mm	left	24P16/ML
180 mm	right	24P16/MR
200 mm	left	24P16/NL
200 mm	right	24P16/NR



Bar Lock

Material
 • stainless steel

Application
 • for individual attachment of closures to spinal orthoses

Characteristics
 • manageable from both sides
 • fixating corset closure

PU = 1 piece

Length	Item-No.
220 mm	24P17



Reclining Shackle

Material
 • stainless steel

Application
 • for frame construction corsets made of synthetics
 • stabilising clamp for individual attachment to back braces

PU = 1 pair

Length x Thickness	Item-No.
150 x 2 mm	24P8/K2
150 x 3 mm	24P8/K3
180 x 2 mm	24P8/N2
180 x 3 mm	24P8/N3



Adhesive Crutch Tip „Ruhrstern“

Material
 • polyurethane-bottom over joint plug, flexibly connected with the plastic top

Characteristics
 • antiskid, also suitable for slightly angular supporting

PU = 2 pcs

Inner diameter	Item-No.
16 mm	77P16/16
18 mm	77P16/18
20 mm	77P16/20
22 mm	77P16/22



Crutch & Cane Tips

Material
 • synthetic rubber with metal spikes
 • colour: grey

Characteristics
 • integrated hard metal spikes provide safe support on snow and ice
 • simply put on the cap when using crutches/cane on dry ground or inside

PU = 10 pieces

Inner diameter	Item-No.
16 mm	77P11/0
20 mm	77P11/2
Replacement Cap	77P11/E



Foot Resting Support

Material
 • Streifycolor (polyethylene)
 • colour: black

Application
 • can be mounted on the wheel chair as foot rest

Characteristics
 • pre-shaped
 • without padding

PU = 1 piece

Size	Length x Width x Thickness	Item-No.
small	190 x 70 x 40 mm	35F2/K
medium	190 x 100 x 40 mm	35F2/M
large	190 x 110 x 40 mm	35F2/G

 The used material is easy to sand and thermoplastic moldable.



Elastic Joint for Orthoses

Material

- polyurethane (PUR)

Application

- Elastic Joint for orthoses are very durable, multifunctional in applications and movement supporting

Characteristics

- the higher the flex grade (75, 85 or 95), the higher the motion support for dorsal- resp. plantar flexion

Set consisting of:

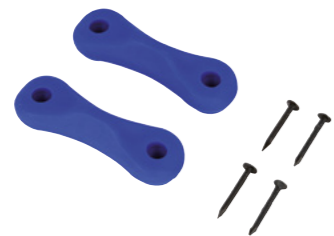
- 1 pair of joints
- 4 brass inserts
- 4 oval-head screws
- 4 paddings (self-adhesive pads for the inside)
- 2 dummies incl. 4 nails

PU = 1 set



Size	Flex grade	Length	Item-No.
S	Neutral	32 mm	10J1/S
M	Neutral	38 mm	10J1/M
L	Neutral	45 mm	10J1/L
S	Flex 75 Shore	32 mm	11J1/S
M	Flex 75 Shore	38 mm	11J1/M
L	Flex 75 Shore	45 mm	11J1/L
S	Flex 85 Shore	32 mm	12J1/S
M	Flex 85 Shore	38 mm	12J1/M
L	Flex 85 Shore	45 mm	12J1/L
S	Flex 95 Shore	32 mm	14J1/S
M	Flex 95 Shore	38 mm	14J1/M
L	Flex 95 Shore	45 mm	14J1/L

Elastic Joint Dummy



Material

- polyurethane (PUR)

Application

- spacer for deep drawing

Set consists of:

- 2 dummies incl. 4 nails

PU = 1 set

Size	Length	Item-No.
S	34 mm	10J1/SE2
M	40 mm	10J1/ME2
L	47 mm	10J1/LE2



Dorsal Stopper for Elastic Joint

Material

- steel, zinc-plated
- elastomers

Application

- to inhibit the plantar flexion in the upper ankle

Characteristics

- continuously adjustable dorsal stop
- applicable for deep-drawn or laminated leg orthoses

Set consists of:

- deflection bumper
- threaded part
- securing nut
- washer
- rivet

PU = 1 set

Item-No.
13J1



Screws and Nuts for Elastic Joint

Set consists of:

- 10 screws (L)
- 10 threaded bushings (M)

PU = 1 set

Size	Thread L	Thread M	Item-No.
S	M3,5 x 8	M3,5	10J1/SE10
M/L	M4 x 9	M4	10J1/ME10

Textiles



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Textiles

The first historical reference to the use of fabrics can already be found 20,000 years ago. The formerly pure workmanship has developed into a textile industry, which uses state-of-the-art machines to produce fabrics on a large scale.

'Fabrics' is the name which has been given to a flexible material that consists of a compound of fibers. This generic term comprises not only fibers, threads and textile surfaces such as cloths, hosiery or nonwoven fabrics, but finished products as well.

Raw materials can be classified into natural fibers (of animal or vegetable origin) and synthetically produced synthetic fibers.

Depending on the intended use, textiles are classified into

- Clothing fabric
- Home textiles (carpets, padding fabric)
- Fabric for technical use (filters, fiber reinforcement for plastics)

The precise use of the different terms is stipulated in DIN 60000. In Germany, the Textilkennzeichnungsgesetz (TKG [textile labeling regulation]) governs the marking of textiles.



Streifeneder ortho.production offers a comprehensive assortment of textile fabrics to all craft workshops of the orthopaedic line of business. The fields of application are various: Diverse cloths and warp knitted tubular products are used for the manufacture of shafts; felts are used as cushioning material for orthoses, and high-stretch cloths are used for supports. Moreover, it is impossible to imagine supports and orthoses without hook and loop fastener systems.



Fibers

Any textile raw material has its special properties and influences the appearance and the utility value of a textile.

One distinguishes between the following fibers

Vegetable fibers

Cotton fibers are taken from the capsules of the cotton plant. They mainly consist of pure cellulose and water. They have a length between 16 and 50 mm. The longer the individual fiber, the higher the quality of the final product and the finer and smoother its aspect.

The use of cotton fibers offers many advantages:

- They can be dyed and bleached to pure white easily
- They are very tear-resistant, especially when they are wet
- They are insensitive to alkaline solutions and heat
- They are very absorbent

Vegetable fibers also include flax (used to make linen), jute, hemp and ramie, which is made of the stalks of the cotton plant. The same applies to sisal and coir fibers, which are used in the industry to produce mats and sacks.

Fibers made of animal raw material

Wool from sheep constitutes the largest share of textile raw materials made of animal fibers. Wool has a high heat-retaining capacity and can absorb a lot of humidity.

The woolmark guarantees virgin wool, i. e. the wool was taken from living sheep. Furthermore, there is regenerated wool (shoddy), which can be pure wool, however, it is a recycling product made of textile wastes.

Other raw materials can be hair of camels, cashmere goats, angora rabbits and mohair goats.

Chemical fibers

There are chemical fibers based on cellulose, e. g. viscose, cupro and acetate, which were called rayon staple fiber in former days. During this process, rayon staple fibers are extracted from wood and liquefied with a sodium hydroxide solution. The resulting spinning dope is ejected via spinning jets, cooled down with water and reeled up onto a bobbin. Fineness of the fiber, cross-section, gloss and colour can be designed individually.

The viscose fiber absorbs humidity well, however, it has a low strength and wrinkles very easily. Since the fiber is easy to dye and to produce with a high gloss finish, it is often used in the world of fashion.

Chemical or artificial fibers on a synthetic basis are always poly-compound groups, i.e. the fiber connections are built by differently structured chain molecules. Among other materials, crude oil, carbon, water, oxygen and nitrogen are used as raw material. By means of different processes, these materials are liquefied and spun as endless thread. There are many developments, which have been registered as trademark by the manufacturer. These names are even better known than the genuine material, e. g. Perlon or Nylon are polyamide fibers.

Polyester (PES) Trade names Diolen and Trevira	The fiber is very versatile and therefore has a top position among synthetic fibers. It is very resistant to tear and abrasion and absorbs nearly no humidity. Polyester is sensitive to heat and must not be ironed too hot.
Polyamide (PA) Trade names Nylon and Perlon	Similar wearing quality as polyester. Polyamide may be permanently formed with heat, a characteristic, which is used during thermosetting.
Microfibers Trade names Tactel and Meryl	Microfibers are often polyamide as well, because it can be spun in fine threads. Thus textiles can be produced, which are permeable with regard to water vapor molecules but drops cannot penetrate from the outside.
Polyacryl (PAC) Trade names Dralon and Dunova	These fibers have a feel similar to wool and are often mixed with wool or used for fur imitations. They are well resistant to light and chemicals and are therefore used for home textiles as well.
Polypropylene (PP)	Polypropylene is a by-product when producing crude oil. PP does not absorb water, has a very high strength, is rot proof and has a high electric insulating power. It is used for instance for functional sports underwear, carpets, textiles especially for wet areas and toiletries.
Polyurethane (PUR)	Polyurethane is the basis for elastic threads, coatings and adhesives. It is characterized by an extreme resistance to chemicals.

Elastomeric fibers are synthetically produced elastic fibers (Elastane), which are lighter and more durable than rubber; known trade names are Lycra, Spandex, and Dorlastan. The raw material is mainly polyurethane. Elastomers can be mixed with spinning matter or you can twist a normal filament yarn around an elastomeric thread to get a stretchable finished product. These fibers may not be dried at temperatures exceeding 100 °C. Only elastic fibers on rubber basis - the raw material of natural origin - may be called rubber or elastodienes.

By means of the burning test, one can determine the type of raw material

- Cotton burns with a bright flame
- Wool burns without flame and has a keratin smell
- PA and PE fuse and can be transformed into threads
- PAC and PVC carbonize to a hard and black residue

The designation of the fiber types and their acronyms are laid down in the textile labeling regulation. Every textile product (the articles defined in this manner are precisely laid down) must have a detailed specification of raw materials. If this article is composed of several fibers, they have to be listed in decreasing order according to their proportion of weight.

By means of a follow-up treatment, the individual endless thread can be textured, i.e. the thread is crimped.

This is intended to generate a more voluminous feel and elasticity of the final product.

When washing vegetable fibers for the first time, you have to take a residual shrinkage of approx. 3 % into account, unless the textile has been sanforized (improved), i.e. processed to withstand shrinkage. In comparison to chemical fibers, any natural fiber has the disadvantage that the raw material is never the same and therefore reacts differently when dyed or finished.

Yarns

In a spinning company the several fibers or filaments are belted by twisting them and thus a yarn (or a thread) is created. The material used may consist of many shorter fibers or of endless-filaments. If several yarns are twisted together, the result is a ply yarn (a sewing thread is usually a ply yarn). In order to achieve a yarn with high breaking strength, an optional number of ply yarns is twisted into a cabled yarn.

The fineness of a yarn is indicated by various designations

- Nm How many meters of a yarn weigh 1 gram?
- Tex How many grams weigh 1000 meters of yarn?
- den How many grams weigh 9000 meters of yarn?

Nm 20/2 signifies: 20 meters of a single yarn weigh one gram and two of these single yarns are twisted together to form a thread. As a rule, the higher the Nm-number, the finer the yarn.

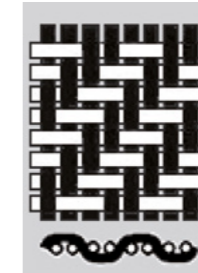
Woven Fabrics

In the case of woven fabrics, chain and weft always cross at right angles. The type of interlacing is called weave. All weaves can be put down to three simple weaves: twill weave, plain weave and atlas weave. Pattern repeat is the smallest, always returning pattern unit.



Plain weave

Plain weave, also called linen weave or taffeta weave, is the same on the front and on the rear part and forms a solid product. Known variants are flannel, poplin or muslin.



Twill weave

The twill weave can be recognized because one pick always runs with an offset over two warp ends, which results in a diagonal stitch. The twill weave allows that specific parts of a material are more distinct on the (decorative) face. Twill fabrics have a softer feel due to the looser weave; known variants are twill, serge, gabardine, denim or heringbone pattern (zigzag pattern).



Atlas weave

The atlas or satin weave is the loosest weave. Here, one pick runs over at least four warp ends before interlacing. This results in an especially soft feel and a soft and lustrous surface. Known atlas weaves are duchesse or moleskin.

Alphabetical overview of the different kinds of fibers

Denominations	Abbreviation	Denominations	Abbreviation
Acetate	CA	Metal	MTF
Alpaca	WP	Modacryl	MAC
Angora	WA	Modal	CMD
Aramid	AR	Mohair	WM
Asbestos	AS	Polyacrylic	PAC
Cotton	CO	Polyamide	PA
Cupro	CUP	Polyester	PES
Spandex	EL	Polyethylene	PE
Elastodiene (Latex)	ED	Polypropylene	PP
Flax, Linen	LI	Polyurethane	PUR
Fluoro	PTFE	Polyvinylalcohol	PVAL
Glass	GF	Polyvinylchloride	CLF
Rubber	LA	Polyvinylidenchloride	CLF
Hemp	HA	Ramie	RA
Jute	JU	Horsehair	HS
Camel	WK	New Wool	WV
Kapok	KP	Silk (Mulberry Silk)	SE
Cashmere	WS	Sisal	SI
Carbonate	CF	Vicuna	WG
Coco	CC	Rayon	CV
Lama	WL	Wool (Sheep Wool)	WO

Jacquard design

When using a jacquard loom, each single warp end can be lifted and lowered separately and thus allows various weaves. A preprogrammed sequence of movements results in the well-known jacquard designs.

Frottee (terry)

For frottee fabrics, an effect yarn with loops – a so-called loop yarn – is used as pick/weft yarn.

Velvet

In the case of velvet, an additional thread is interlaced, which creates loops on the fabric face that are cut afterwards.

Velour

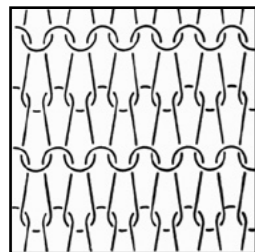
Velour (French = velvet) is the generic term for a velvet-type surface. This surface is created by napping the surface of a fabric or it designates the rough surface of (imitation) leather.

Knitwear and Hosiery

Knitwear can be subdivided into knitted goods and hosiery goods. Most of the time, the optical difference is not discernible, but the difference is caused by the use of different production machines. Knitted goods are generally called jersey (jersey knit). These goods are knitted on circular knitting machines (hoses or pipes) or by means of flat knitting machines as flat goods.

Weft-knitted fabric

Only one yarn running in transverse direction is used for knitting weft-knitted fabrics. This knitted fabric is caught simultaneously by many needles and the knitwear is pulled through the previous tubular knit course. This process is used to make hoses or yard goods. A typical example is rib knitting. This is the name of rib knitted fabric, which is produced on circular knitting machines and in which both sides present the same fabric appearance.

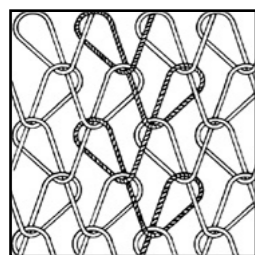


For weft-knitted fabrics, only one yarn is used for knitting.

Warp-knitted fabric

Interlock (fabric) is a variant where several yarns are knitted in one row. This results in a very solid and thick fabric appearance with an enormous elasticity.

The number of knitted stitches of the finished knitted fabric corresponds to the number of yarns and needles, which are used to make warp-knitted fabrics. The yarns are running vertically and create the optical impression that the knits are always slightly oblique. As a rule, this knitwear is difficult to unstitch. One variant of this type of fabric is the tricot weave formed by ragged stitches where knits are woven into the adjacent loop.



Warp-knitted fabric is produced with many yarns and needles.

Plush

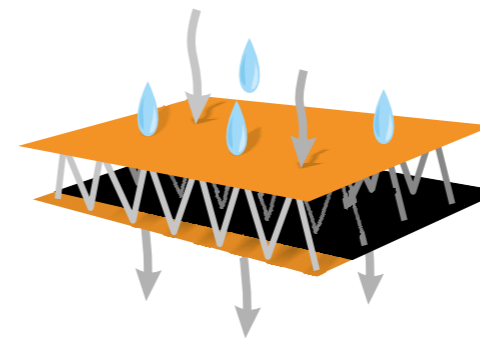
Plush is a warp-knitted fabric with long loops. Cutting the loops for instance results in chenille fabrics (chenille plush).

Fleece

Fleece is also a knitted fabric, but the surface is severely napped.

Warp-knitted spacer fabrics

Warp-knitted spacer fabrics are a relatively recent development. They are equipped with two cover textiles, which are kept in a well-defined distance to each other by means of spacer yarns (pile yarn). 3D-textiles (three-dimensional textiles) have a lasting elasticity of compression and gently yield to external impacts with restoring force. A microclimate is generated inside the pile layer, which acts a thermoregulator. Humidity is transported to the outside, but the inside is protected against the cold from the outside. Depending on the purpose of use, those cover textiles are additionally masked with a functional material (firmly fixed by bonding).



Thermoactive fabrics are designed according to physiological aspects. The aim is to thereby prevent e. g. water and wind from entering.

Nonwoven Fabrics

Nonwoven fabric is the general name given to textile structures made of single fibers, which are strainhardened by means of different processes (binding agents, pressing etc.). A well-known trade name is the main interlining Vlieseline.

Felt

A special form is felting. Different materials are compressed by combining mechanical work, chemical influences, humidity and heat. Felt has various advantages. Felt is air-permeable, temperature-resistant from -40° up to $+110^{\circ}$ °C, soundabsorbing, ph-resistant, UV-resistant, moisture repellent and durable.



Felt is a nonwoven fabric made from textile fibers, primarily from wool.

Care symbols

The labeling of textile goods and textiles is governed by the European Directive about the Labeling of Textiles, which replaced the German textile labeling code in March 2012. The label provides important information to the consumer with regard to a proper handling of textiles for washing, drycleaning, drying and ironing and helps to avoid product returns. The symbols for care labeling are defined by ISO 3758, a standard, which is globally in force.

Materials and articles regulation

The material and articles regulation mainly stipulates the safety of foodstuffs, but applies to textiles as well in the following areas:

- Azoic colours
- Textile and leather articles, which may come into direct contact with the skin must not be dyed with specific azoic colours.
- Flame-retardant
- Specific flame-retardants may no longer be used except for protective clothing.
- Nickel
- Materials and articles coming into direct and prolonged contact with the body shall no longer be put into circulation if the rate of nickel release is greater than 0.5 mg/cm². This includes also articles that are covered with nickel-free finishes, which, however, are expected to be subject to abrasion when worn. The absence of nickel has to be guaranteed for a period of two years.
- Formaldehyde
- Textile products with a mass exceeding 0.15 % of free formaldehyde, which in their normal use come into contact with the skin, must be labeled with the following sentence: "Contains formaldehyde. Washing this garment is recommended prior to first time use in order to avoid irritation of the skin".

The Oeko-Tex Standard is a testing and certification system for textiles, which is issued by the "International Association for Research and Testing on the Textile Ecological Sector" (Oeko-Tex). It is intended to show the customer that textile products equipped with these labels respect specific limits with regard to harmful substances.

The certification system has four product categories

- I – Textiles and textile toys for babies and infants up to 3 years.
- II – Textiles which come directly into contact with the skin with a large part of their surface (garments, undergarments and bedding).
- III – Textiles which do not come directly into contact with the skin or only with a small part of their surface (outerwear, coats, etc.)
- IV – Equipment material for decoration purposes (table linen, curtains, etc.).

The degree of testing depends on the product category. The higher the intensity of skin contact of the textile, the more stringent are the requirements.



Loop Strap

Material


- 100 % polyamide
- woven
- loop-shaped threads

Application

- use together with hook strap item-no. 60T18K

PU = 10, 20, 25, 30 or 50 metre roll

Width	Colour	Item-No.
20 mm	white	60T18F20W
20 mm	caucasian	60T18F20H
20 mm	blue	60T18F20B
20 mm	light blue	60T18F20HB
20 mm	black	60T18F20S
20 mm	red	60T18F20R
20 mm	golden	60T18F20X
25 mm	white	60T18F25W
25 mm	caucasian	60T18F25H
25 mm	blue	60T18F25B
25 mm	light blue	60T18F25HB
25 mm	black	60T18F25S
25 mm	red	60T18F25R
25 mm	golden	60T18F25X
30 mm	white	60T18F30W
30 mm	caucasian	60T18F30H
30 mm	blue	60T18F30B
30 mm	light blue	60T18F30HB
30 mm	black	60T18F30S
30 mm	red	60T18F30R
30 mm	golden	60T18F30X
38 mm	white	60T18F38W
38 mm	caucasian	60T18F38H
38 mm	black	60T18F38S
50 mm	white	60T18F50W
50 mm	caucasian	60T18F50H
50 mm	blue	60T18F50B
50 mm	light blue	60T18F50HB
50 mm	black	60T18F50S
50 mm	red	60T18F50R
50 mm	golden	60T18F50X
100 mm	white	60T18F100W
100 mm	caucasian	60T18F100H
100 mm	black	60T18F100S

 This item is available in various colours and widths with self-adhesive coating (see item-no. 60T37).



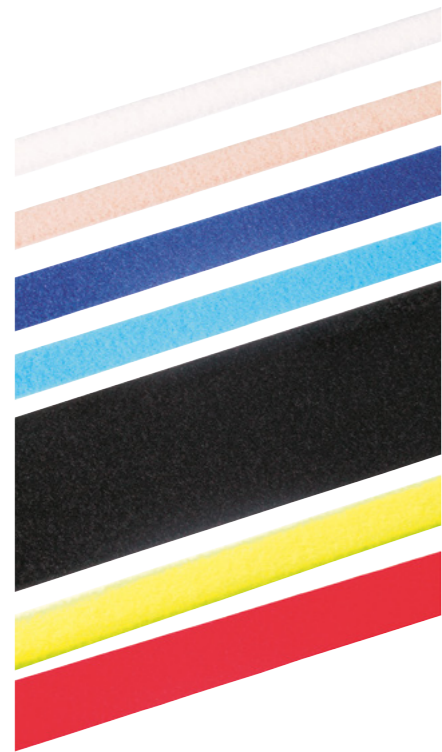
Hook Strap

- Material**
- 100 % polyamide
 - woven
 - hook-shaped holding threads

- Application**
- this hook strap is suitable for frequent opening and closing
 - use together with loop strap item-no. 60T18F

- Characteristics**
- high holding force

PU = 10, 20, 25, 30 or 50 metre roll



Width	Colour	Item-No.
20 mm	white	60T18K20W
20 mm	caucasian	60T18K20H
20 mm	blue	60T18K20B
20 mm	light blue	60T18K20HB
20 mm	black	60T18K20S
20 mm	red	60T18K20R
20 mm	golden	60T18K20X
25 mm	white	60T18K25W
25 mm	caucasian	60T18K25H
25 mm	blue	60T18K25B
25 mm	light blue	60T18K25HB
25 mm	black	60T18K25S
25 mm	red	60T18K25R
25 mm	golden	60T18K25X
30 mm	white	60T18K30W
30 mm	caucasian	60T18K30H
30 mm	blue	60T18K30B
30 mm	light blue	60T18K30HB
30 mm	black	60T18K30S
30 mm	red	60T18K30R
30 mm	golden	60T18K30X
38 mm	white	60T18K38W
38 mm	caucasian	60T18K38H
38 mm	black	60T18K38S
50 mm	white	60T18K50W
50 mm	caucasian	60T18K50H
50 mm	blue	60T18K50B
50 mm	light blue	60T18K50HB
50 mm	black	60T18K50S
50 mm	red	60T18K50R
50 mm	golden	60T18K50X
100 mm	white	60T18K100W
100 mm	black	60T18K100S

Close hook- and loop closure prior to washing in order to avoid damage to other fabrics.



Loop Strap „Hako Fix“

- Material**
- 100 % polyamide
 - woven
 - loop-shaped threads

- Application**
- use together with hook strap item-no. 60T80K

PU = 10, 15 and 25 metre roll



Width:	Colour	Item-no.
20 mm	white	60T80F20W
20 mm	blue	60T80F20B
20 mm	black	60T80F20S
20 mm	yellow	60T80F20X
20 mm	red	60T80F20R
25 mm	white	60T80F25W
25 mm	peach	60T80F25H
25 mm	black	60T80F25S
25 mm	light blue	60T80F25HB
25 mm	yellow	60T80F25X
30 mm	white	60T80F30W
30 mm	peach	60T80F30H
30 mm	blue	60T80F30B
30 mm	black	60T80F30S
30 mm	yellow	60T80F30X
30 mm	red	60T80F30R
30 mm	grey	60T80F30G
38 mm	white	60T80F38W
38 mm	peach	60T80F38H
38 mm	blue	60T80F38B
38 mm	black	60T80F38S
38 mm	yellow	60T80F38X
38 mm	red	60T80F38R
50 mm	white	60T80F50W
50 mm	peach	60T80F50H
50 mm	blue	60T80F50B
50 mm	black	60T80F50S
50 mm	yellow	60T80F50X
50 mm	red	60T80F50R

Close hook- and loop closure prior to washing in order to avoid damage to other fabrics.



Hook Strap „Hako Fix“

- Material**
- 100 % polyamide
 - woven
 - hook-shaped holding threads

- Application**
- this hook strap is suitable for frequent opening and closing
 - use together with hook strap item-no. 60T80F

- Characteristics**
- extremely high holding- and transverse force

PU = 10, 15 and 25 metre roll



Width	Colour	Item-No.
20 mm	white	60T80K20W
20 mm	blue	60T80K20B
20 mm	black	60T80K20S
20 mm	light blue	60T80K20HB
20 mm	yellow	60T80K20X
25 mm	white	60T80K25W
25 mm	black	60T80K25S
25 mm	yellow	60T80K25X
25 mm	red	60T80K25R
30 mm	white	60T80K30W
30 mm	caucasian	60T80K30H
30 mm	blue	60T80K30B
30 mm	black	60T80K30S
30 mm	yellow	60T80K30X
30 mm	red	60T80K30R
38 mm	white	60T80K38W
38 mm	caucasian	60T80K38H
38 mm	blue	60T80K38B
38 mm	black	60T80K38S
38 mm	light blue	60T80K38HB
38 mm	yellow	60T80K38X
50 mm	white	60T80K50W
50 mm	caucasian	60T80K50H
50 mm	blue	60T80K50B
50 mm	black	60T80K50S
50 mm	yellow	60T80K50X
50 mm	red	60T80K50R

Close hook- and loop closure prior to washing in order to avoid damage to other fabrics.



Micro Hook and Loop Strap

- Material**
- 100 % polyamide
 - extruded (compression-moulded hook-shaped holding threads)
 - colour: black

- Application**
- especially suitable to hold paddings in orthoses or shoe uppers
 - micro hook- and loop connections have a higher transverse force, but a lower holding force than regular hook- and loop closures
 - the hook strap can also be used with other loop straps or velour fabrics

- Characteristics**
- very flat closure system (approx. 1,5 mm, closed)
 - very good for adhesive bondings with the work piece

PU = 50 metres per roll



Width	Version	Item-No.
20 mm	hook	60T40K20S
20 mm	loop	60T40F20S



Micro Hook and Loop Strap „Back to Back“

- Material**
- 100 % polyamide
 - extruded (hook-shaped warp pressed into shape)

- Application**
- especially suitable for incorporation into HTV silicones
 - Micro Hook an Loop fastenings have a higher shear strength but lower adhesive strength than normal hook strap fasteners
 - the strap can also be used with other hook-and-loop fasteners or velour fabrics

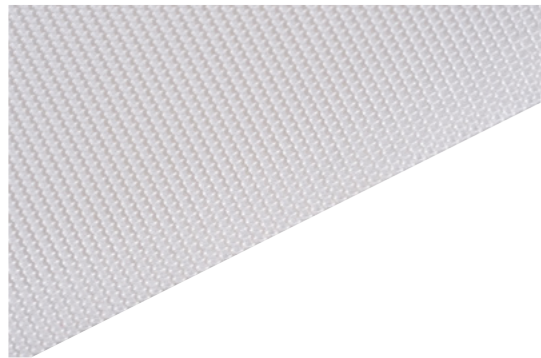
Sales unit = 1 m



Width	Colour	Item-No.
38 mm	black	60T41B38S
38 mm	white	60T41B38W



Micro Hook Strap, transparent



- Material**
- 100 % polyamide
 - hook-shaped holding threads
 - material thickness: 1 mm

- Application**
- for attachment of paddings in orthoses and prosthetic sockets

- Characteristics**
- hooks to most velours fabrics and loop fabrics

Width	Item-No.
320 mm	60T43K320



Hook and Loop Dots



- Material**
- 100 % polyamide with adhesive coating

- Application**
- for permanent attachment of e.g. paddings in orthoses

- Characteristics**
- self-adhesive

Sales unit = 1 roll (700 pcs)

Diameter	Colour	Version	Item-No.
30 mm	peach	hook	60T86K30H
30 mm	black	hook	60T86K30S
30 mm	white	hook	60T86K30W
30 mm	peach	loop	60T86F30H
30 mm	black	loop	60T86F30S
30 mm	white	loop	60T86F30W

Hook and Loop



- Material**
- 100 % polyamide
 - white plastic loop incl. 2 tubular rivets

- Characteristics**
- the finished velcro fastening system can be attached quickly and easily with rivets or by sewing it to the workpiece

Size	Dimensions W x L	Item-No.
1	38 x 270 mm	60T55/1
2	38 x 310 mm	60T55/2



Elastic Hook and Loop Strap



- Material**
- polyamide/elasthane
 - woven-in loop-shaped velour threads
 - hook-shaped holding threads

- Application**
- for hook- and loop closure systems which must withstand motion and muscle tension due to system elasticity

- Characteristics**
- approx. 50 % stretching capability

PU = 10, 20, 25, 30 or 50 metre roll

Width	Colour	Version	Item-No.
30 mm	white	loop	60T30F30W
30 mm	peach	loop	60T30F30H
30 mm	blue	loop	60T30F30B
30 mm	black	loop	60T30F30S
50 mm	white	loop	60T30F50W
50 mm	peach	loop	60T30F50H
50 mm	blue	loop	60T30F50B
50 mm	black	loop	60T30F50S
30 mm	white	hook	60T30K30W
30 mm	peach	hook	60T30K30H
30 mm	blue	hook	60T30K30B
30 mm	black	hook	60T30K30S
50 mm	white	hook	60T30K50W
50 mm	peach	hook	60T30K50H
50 mm	blue	hook	60T30K50B
50 mm	black	hook	60T30K50S

 Sew the elastic hook- and loop strap with zig-zag stitches onto the work piece.



Self-Adhesive Hook and Loop Strap

Material


- 100 % polyamide
- woven
- loop-shaped threads
- hook-shaped holding threads
- backside coated with adhesive on acrylic base

Characteristics

- backside with self-adhesive coating provides high and quick adhesion and in addition, it is temperature-resistant and age-resistant

PU = 10, 20, 25, 30 or 50 metre roll

Width	Colour	Features	Item-No.
20 mm	white	Loop	60T37F20W
20 mm	caucasian	Loop	60T37F20H
20 mm	black	Loop	60T37F20S
25 mm	white	Loop	60T37F25W
25 mm	caucasian	Loop	60T37F25H
25 mm	black	Loop	60T37F25S
30 mm	white	Loop	60T37F30W
30 mm	caucasian	Loop	60T37F30H
30 mm	black	Loop	60T37F30S
38 mm	white	Loop	60T37F38W
38 mm	caucasian	Loop	60T37F38H
38 mm	black	Loop	60T37F38S
50 mm	white	Loop	60T37F50W
50 mm	caucasian	Loop	60T37F50H
50 mm	black	Loop	60T37F50S
20 mm	white	Hook	60T37K20W
20 mm	black	Hook	60T37K20S
25 mm	white	Hook	60T37K25W
25 mm	caucasian	Hook	60T37K25H
25 mm	black	Hook	60T37K25S
30 mm	white	Hook	60T37K30W
30 mm	caucasian	Hook	60T37K30H
30 mm	black	Hook	60T37K30S
38 mm	white	Hook	60T37K38W
38 mm	black	Hook	60T37K38S
50 mm	white	Hook	60T37K50W
50 mm	caucasian	Hook	60T37K50H
50 mm	black	Hook	60T37K50S

 The designated surface for adhering the strap must be free of grease and dust. Roughen smooth surfaces prior to adhering.



Hook and Loop Strap „Back-to-Back“

hook and loop, welded back to back

Material

- 100 % polyamide
- woven
- loop-shaped threads
- hook-shaped holding threads

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	white	60T38B20W
20 mm	peach	60T38B20H
20 mm	black	60T38B20S
25 mm	white	60T38B25W
25 mm	black	60T38B25S
30 mm	white	60T38B30W
30 mm	peach	60T38B30H
30 mm	black	60T38B30S
50 mm	white	60T38B50W
50 mm	peach	60T38B50H
50 mm	black	60T38B50S



Hook and Loop Fasteners with deflection-loop and flap

- Material**
- 100 % polyamide
 - buckle made of white unbreakable plastic material

- Characteristics**
- the hook- and loop closure system can be riveted or sewn to the work piece quickly and easily

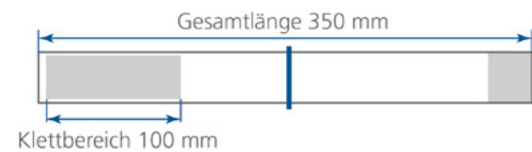
PU = 10 pcs/colour

60T70 - coloured

Size W x L	Colour	Item-No.
25 x 350 mm	blue	60T70/25B
25 x 350 mm	yellow	60T70/25G
25 x 350 mm	red	60T70/25R
25 x 350 mm	black	60T70/25S
25 x 350 mm	white	60T70/25W
30 x 350 mm	blue	60T70/30B
30 x 350 mm	yellow	60T70/30G
30 x 350 mm	red	60T70/30R
30 x 350 mm	black	60T70/30S
30 x 350 mm	white	60T70/30W
38 x 350 mm	blue	60T70/38B
38 x 350 mm	yellow	60T70/38G
38 x 350 mm	red	60T70/38R
38 x 350 mm	black	60T70/38S
38 x 350 mm	white	60T70/38W
50 x 350 mm	blue	60T70/50B
50 x 350 mm	yellow	60T70/50G
50 x 350 mm	red	60T70/50R
50 x 350 mm	black	60T70/50S
50 x 350 mm	white	60T70/50W

60T60 – peach

Size W x L	Colour	Item-No.
25 x 420 mm	peach	60T60/25H
30 x 420 mm	peach	60T60/30H
38 x 420 mm	peach	60T60/38H
50 x 420 mm	peach	60T60/50H



Comfort pad for orthotic fasteners

Material

- skin side: polyamide (PA)
- outer side: polyester (PES) and polyvinylchloride (PVC) (blue) or polyester (PES) and polyamide (PA) (black)

Characteristics

- the pre-fabricated comfort pad replaces hand-crafted sliding pads for existing strap- and fastener systems
- protects pressure sensitive body areas such as e.g. tibial crest
- embossings for trimming
- suitable for strap widths 25, 30, 38 and 50 mm
- disinfectable

PU = 10 pcs.

Dimensions B x L	Colour	For belt width	Item-No.
65 x 140 mm	black	25, 30 mm	145R14/MS
65 x 140 mm	blue	25, 30 mm	145R14/MB
85 x 180 mm	black	38, 50 mm	145R14/LS
85 x 180 mm	blue	38, 50 mm	145R14/LB



Hook and Loop Fastener System

stable version

Material

- strap: textile leather
- hook and loop fasteners: polyamide
- guide roller and loop: metal

Characteristics

- smooth, rigid surface, can be cleaned with a damp cloth
- embossed markings for shortening and punching of rivet-holes
- high-quality and modern workmanship

PU = 1 piece

Colour	Width	Hook and loop fastening area	Item-No.
white	25 mm	150 - 250 mm	145R12/25W
black	25 mm	150 - 250 mm	145R12/25S
dark blue	25 mm	150 - 250 mm	145R12/25DB
white	40 mm	150 - 350 mm	145R12/40W
black	40 mm	150 - 350 mm	145R12/40S
dark blue	40 mm	150 - 350 mm	145R12/40DB





Padding Band

- Material**
- 100 % neoprene
 - colour: black

- Application**
- for paddings of belt closures for orthotics

PU = metre

Inner diameter	Item-No.
25 mm	197P10/25
38 mm	197P10/38



Loop Strap, double-sided


- Material**
- 100 % polyamide (front- and back side)
 - colour: black

- Application**
- for manufacturing of individual belt closures

- Characteristics**
- loop strap on front- and backside
 - on both sides with piped edges
 - stable version

PU = 23 m per roll

Width	Item-No.
35 mm	60T15F35S

 This velour clings to regular hook- as well as to micro hook material.



Cotton Webbing Strap

- Material**
- 100 % cotton (CO)
 - woven
 - finished
 - plain weave
 - tintured yarn
 - diagonally cutted, folded, medial selvedge
 - light quality

- Application**
- for piping of open cut fabric edges

- Properties**
- well suitable for curved edges

PU = approx. 50 m per roll

Width	Colour	Item-No.
20 mm	white	52T1/20W
20 mm	peach	52T1/20H
20 mm	black	52T1/20S

Slight colour deviations are possible for technical production reasons.



Velvet Strap

- Material**
- 100 % polyamide
 - woven with firm edge

- Recommendation**
- iron on the bottom side

PU = 10 metres per roll

Width	Colour	Item-No.
22 mm	peach	59T9/22H
22 mm	black	59T9/22S
50 mm	peach	59T8/50H
50 mm	black	59T8/50S



Thigh Strap Cord

- Material**
- 100% rayon (ZW)
 - woven
 - finished
 - roughed up
 - Twill weave
 - fluffy, soft grip
 - colour: white

PU = 25 metres per roll

Width	Item-No.
20 mm	57T3/20W

Slight colour deviations are possible for technical production reasons.



Edging Strap

- Material**
- 100 % cotton (CO)
 - woven
 - finished
 - herringbone weave
 - light quality

PU = 50 m per roll

Width	Colour	Item-No.
10 mm	white	51T1/10W
10 mm	peach	51T1/10H
10 mm	black	51T1/10S
20 mm	wite	51T1/20W
20 mm	peach	51T1/20H
20 mm	black	51T1/20S

Slight colour deviations are possible for technical production reasons.



Support Strap

- Material**
- 100 % cotton (CO)
 - woven
 - finished
 - Herringbone weave with intermittent stiped look
 - medium-heavy, soft quality

PU = 10, 20, 30 or 50 metres per roll

Width	Colour	Item-No.
35 mm	white	53T9/35W
35 mm	peach	53T9/35H
35 mm	black	53T9/35S
45 mm	white	53T9/45W
45 mm	peach	53T9/45H
45 mm	black	53T9/45S

Slight colour deviations are possible for technical production reasons.



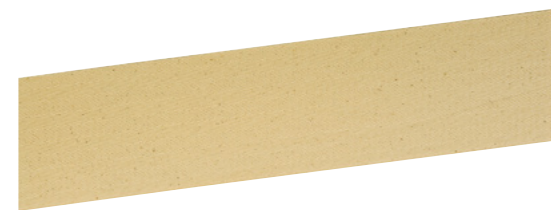
Webbing Belt for Rib Fracture Support

- Material**
- 100 % viscose (CV)
 - woven
 - herringbone weave
 - mottled, rough structure
 - strong quality
 - colour: off-white

PU = 10 or 25 m per roll

Width	Colour	Item-No.
100 mm	off-white	58T1/100W

Slight colour deviations are possible for technical production reasons.



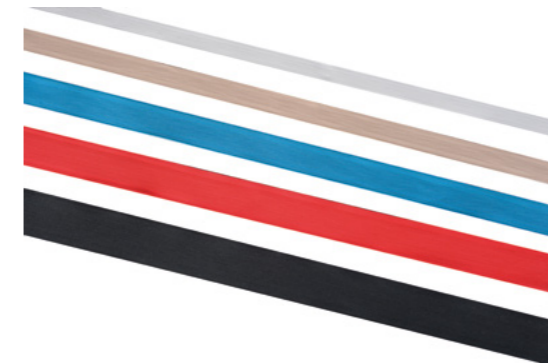
Support Strap

- Material**
- 100 % cotton (CO)
 - woven with firm edge
 - finished
 - twill weave with striped look
 - medium-heavy quality

PU = 10, 20, 30 or 50 metres per roll

Width	Colour	Item-No.
20 mm	white	53T13/20W
20 mm	peach	53T13/20H
20 mm	blue	53T13/20B
20 mm	black	53T13/20S
25 mm	white	53T13/25W
25 mm	peach	53T13/25H
30 mm	white	53T13/30W
30 mm	peach	53T13/30H
30 mm	blue	53T13/30B
30 mm	black	53T13/30S
35 mm	peach	53T13/35H
35 mm	blue	53T13/35B
35 mm	yellow	53T13/35G
45 mm	yellow	53T13/45G
45 mm	red	53T13/45R
50 mm	white	53T13/50W
50 mm	peach	53T13/50H
50 mm	blue	53T13/50B
50 mm	black	53T13/50S

Slight colour deviations are possible for technical production reasons.



Support Strap

- Material**
- 100 % cotton (CO)
 - woven with firm edge
 - twill weave with striped look
 - strong quality

PU = 10, 20, 30 or 50 metres per roll

Width	Colour	Item-No.
30 mm	white	53T3/30W

Slight colour deviations are possible for technical production reasons.





Prosthetic Belt

- Material**
- 100 % cotton
 - woven
 - Plain weave with rip structure
 - medium-heavy, soft quality

PU = 30 or 50 m per roll

Width	Colour	Item-No.
20 mm	white	55T1/20W
20 mm	peach	55T14/20H
25 mm	white	55T1/25W
25 mm	peach	55T1/25H
30 mm	white	55T1/30W
30 mm	peach	55T14/30H
35 mm	white	55T1/35W
35 mm	peach	55T14/35H
45 mm	white	55T1/45W
45 mm	peach	55T14/45H

Slight colour deviations are possible for technical production reasons.



Safety Belt

- Material**
- 100 % polyester
 - woven
 - plain weave with fine rip structure
 - light, shiny quality
 - colour: black

PU = 10, 20, 30 or 50 metres per roll

Width	Item-No.
38 mm	55T25
50 mm	55T25/50



Webbing Strap

- Material**
- 100 % polypropylene
 - woven
 - plain weave with rip structure
 - strong, shiny quality

PU = 10, 20, 30 or 50 metres per roll

Width	Colour	Item-No.
20 mm	black	55T10/20S
25 mm	white	55T28/25W
25 mm	black	55T10/25S
30 mm	black	55T10/30S

Suitable for applications with high pulling forces.



Webbing Strap, Polyester

- Material**
- 100 % polyester
 - woven
 - plain weave with rip structure
 - light, shiny quality

PU = 10, 20, 30 or 50 metres per roll

Width	Colour	Item-No.
20 mm	white	55T30/20W
20 mm	blue	55T30/20B
20 mm	black	55T30/20S
20 mm	red	55T30/20R
20 mm	yellow	55T30/20G
25 mm	white	55T30/25W
25 mm	blue	55T30/25B
25 mm	black	55T30/25S
25 mm	red	55T30/25R
25 mm	yellow	55T30/25G
30 mm	white	55T30/30W
30 mm	blue	55T30/30B
30 mm	black	55T30/30S
30 mm	red	55T30/30R
50 mm	white	55T30/50W
50 mm	blue	55T30/50B
50 mm	black	55T30/50S
50 mm	red	55T30/50R





„Lycra-Tuell“ Webbing

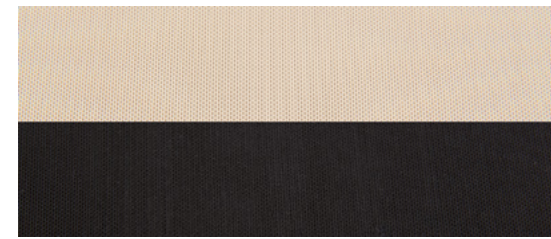
Material

- 65 % polyamide and 35 % elastane
- knit
- finished
- open structure
- smooth surface
- Longitudinal elasticity approx. 95 %
- Transversal elasticity approx. 100 %

PU = metre

Width	Colour	Weight	Item-No.
900 mm	peach	330 g/m ²	63T35/H
900 mm	black	330 g/m ²	63T35/S

Slight colour deviations are possible for technical production reasons.



„Tuell“ Webbing

Material

- 28 % cotton, 38 % polyamide, 24 % elastane
- knit
- finished
- surface fluffy and roughed up
- longitudinal elasticity approx. 110 %
- transverse elasticity approx. 80 %

PU = metre

Width	Colour	Weight	Item-No.
950 mm	peach	330 g/m ²	63T46/H

Slight colour deviations are possible for technical production reasons.



„Elastinova-Tuellex“ Webbing

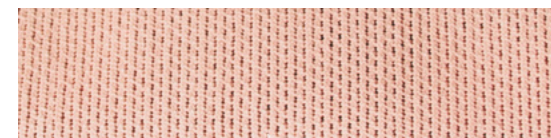
Material

- 80 % polyamide, 20 % elastane
- knit
- smooth open structure
- strong quality
- longitudinal elasticity approx. 60 %
- special knit prevents from fraying out along the cut selvedge
- colour: peach

PU = metre

Width	Colour	Item-No.
950 mm	peach	63T13/H

Slight colour deviations are possible for technical production reasons.



„Elastinova“ Webbing Strap

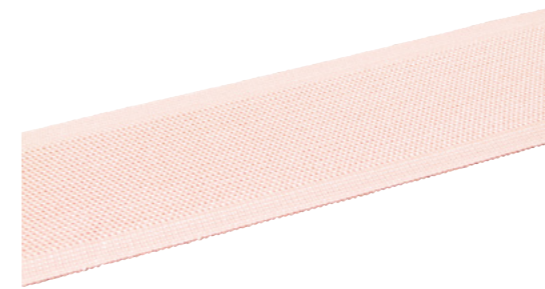
Material

- 72 % viscose, 16 % cotton and 12 % elastodiene (latex)
- knit
- thick, sturdy and very stiff quality
- longitudinal elasticity approx. 60 %
- colour: peach

PU = 5, 10 or 25 metres per roll

Width	Colour	Item-No.
250 mm	peach	62T7/25H
300 mm	peach	62T7/30H
350 mm	peach	62T7/35H
400 mm	peach	62T7/40H
450 mm	peach	62T7/45H

Slight colour deviations are possible for technical production reasons.



Elastic Webbing Strap

Material

- 91 % rayon and 9 % elastodiene (latex)
- woven
- firm, medium-strong quality with smooth surface
- Longitudinal elasticity approx. 80 %

PU = 5, 10 or 25 metres per roll

Width	Colour	Item-No.
50 mm	white	61T1/5W
50 mm	peach	61T1/5H
50 mm	black	61T1/5S
80 mm	white	61T1/8W
80 mm	peach	61T1/8H
80 mm	black	61T1/8S
100 mm	white	61T1/10W
100 mm	peach	61T1/10H
100 mm	black	61T1/10S
140 mm	white	61T1/14W
200 mm	white	61T2/20W
200 mm	peach	62T1/20H
200 mm	black	62T1/20S
250 mm	peach	62T1/25H
300 mm	peach	62T1/30H

Slight colour deviations are possible for technical production reasons.





Elastic Webbing Strap

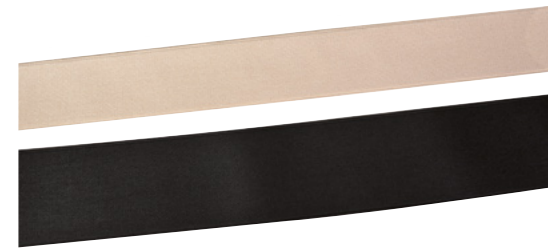
Material

- 85 % viscose and 15 % elastodiene (latex)
- woven with firm edge
- firm, medium-strong quality with smooth surface
- longitudinal elasticity approx. 60 %

PU = 5, 10 or 25 metres per roll

Width	Colour	Item-No.
60 mm	peach	61T13/6H
60 mm	black	61T13/6S
80 mm	black	61T13/8S

Slight colour deviations are possible for technical production reasons.



Elastic Support Webbing

Material

- 77 % polyamide, 12 % rayon and 11 % elastane
- woven with perlon wire reinforcement
- lattice-like openwork structure
- smooth surface
- Longitudinal elasticity approx. 80 %

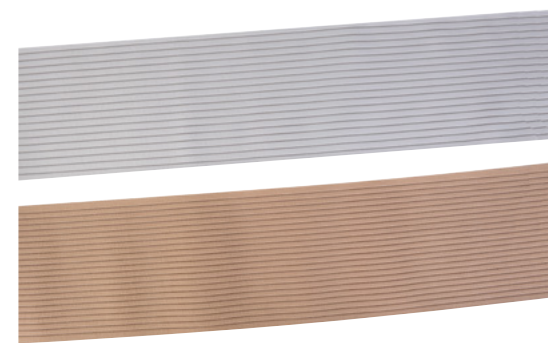
Application

- Suitable for postoperative body bandages

PU = 5, 10 or 25 metres per roll

Width	Colour	Item-No.
60 mm	white	61T3/6W
60 mm	peach	61T3/6H
80 mm	white	61T3/8W
80 mm	peach	61T3/8H
160 mm	white	61T3/16W
160 mm	peach	61T3/16H
200 mm	white	61T3/20W
250 mm	white	61T3/24W
250 mm	peach	61T3/24H

Slight colour deviations are possible for technical production reasons.



Elastic Prosthetic Belt

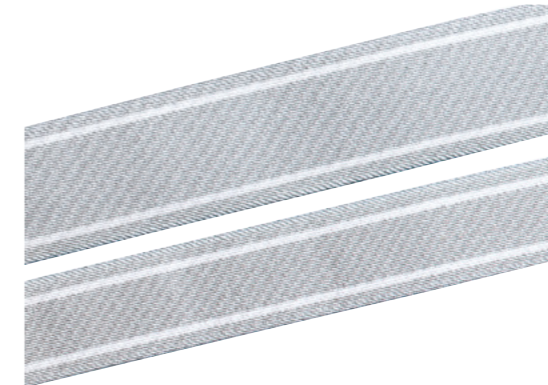
Material

- 65 % cotton, 18 % rayon and 17 % elastodiene (latex)
- multi layer weave with soft, smoothed edge
- thick, strong quality
- front side bright-grey with white stripes, white back side
- Longitudinal elasticity approx. 50 %

PU = 25 metres per roll

Width	Item-No.
35 mm	65T3/35GW
45 mm	65T3/45GW

Slight colour deviations are possible for technical production reasons.



Elastic Webbing Strap

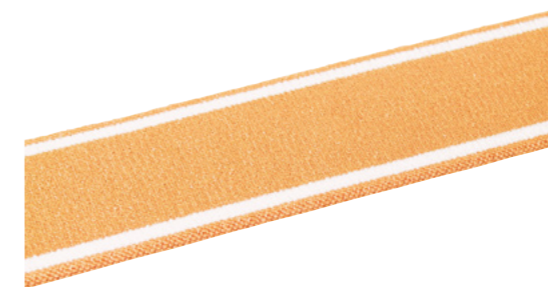
Material

- 82 % rayon and 18 % elastodiene (latex)
- multi layer weave
- stripes woven in on both sides
- smooth rounded edges
- thick, strong quality
- shiny terrycloth-like structure
- Longitudinal elasticity approx. 50 %
- Colour: golden/white

PU = 25 metres per roll

Width	Item-No.
20 mm	65T1/20BW
25 mm	65T1/25BW
35 mm	65T1/35BW
45 mm	65T1/45BW

Slight colour deviations are possible for technical production reasons.





Elastic Border Strap with silicone beads (dots)

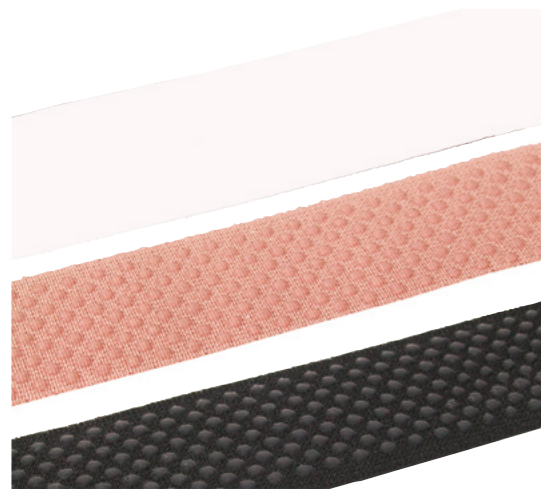
- Material**
- 88 % polyamide (nylon) and 12 % elastane
 - soft, light quality
 - point-shaped silicone coating
 - Longitudinal elasticity approx. 150 %

- Recommendation**
- Do not iron the silicone side!

PU = 5, 10, 25 or 50 metres per roll

Width	Colour	Item-No.
50 mm	white	66T15/50W
50 mm	peach	66T15/50H
50 mm	black	66T15/50S

Slight colour deviations are possible for technical production reasons.



Elastic Garter Strap

- Material**
- 78 % viscose and 22 % elastodiene (latex)
 - woven with firm edge
 - medium-strong quality with smooth surface
 - longitudinal elasticity approx. 60 %

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	peach	66T10/20H
20 mm	black	66T10/20S
30 mm	peach	66T10/30H

Slight colour deviations are possible for technical production reasons.

Use our matching velvets item-no. 45P20.



Garter

- Material**
- strap: 78 % viscose and 22 % elastodien
 - flap: iron with miralloy coating (nickel-free)
 - velvet: iron with miralloy coating (nickel-free)

PU = 10 pairs

Width	Colour	Item-No.
20 mm	white	67T12/20W
20 mm	peach	67T12/20H
30 mm	white	67T12/30W
30 mm	peach	67T12/30H

Always wash in a mesh laundry bag.



Elastic Strap with button holes

- Material**
- 56 % rayon, 30 % viscose and 14 % elastodiene (latex)
 - woven
 - soft, medium-strong quality
 - glossy surface
 - medial button holes, length approx. 7 mm
 - Longitudinal elasticity approx. 80 %

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	white	69T11/20W
20 mm	peach	69T11/20H
20 mm	black	69T11/20S

Slight colour deviations are possible for technical production reasons.



Thigh Strap-Elastic Strap with button holes

- Material**
- 78 % viscose and 13 % rubber

- Application**
- for length regulation in prosthetics

- Characteristics**
- woven
 - roughened on both sides
 - soft, medium-strong quality
 - medial button holes, length approx. 7 mm
 - Longitudinal elasticity approx. 90 %

VE = 25 m per Rolle

Breite	Farbe	Bestell-Nr.
18 mm	weiß	69T11/18W





Elastic Edging Strap

Material

- 80 % rayon and 20 % elastodiene (latex)
- woven with light rip structure
- indicated folded edge in the middle
- light quality
- slightly glossy surface
- Longitudinal elasticity approx. 120 %

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	white	73T1/W
20 mm	peach	73T1/H
20 mm	black	73T1/S

Slight colour deviations are possible for technical production reasons.



Elastic Edging Strap

Material

- 83 % viscose and 17 % elastodiene (latex)
- woven
- clearly pronounced folded edge in the middle
- medium-heavy quality
- Highly glossy, smooth surface
- Longitudinal elasticity approx. 160 %

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	white	73T5/W
20 mm	peach	73T5/H
20 mm	black	73T5/S

Slight colour deviations are possible for technical production reasons.



Elastic Edge Strap

Material

- 83 % rayon, 8 % polyamide and 9 % elastodiene (latex)
- woven with light rip structure
- slightly indicated folded edge
- light quality
- glossy surface
- one half with velvety surface
- Longitudinal elasticity approx. 120 %

PU = 25 metres per roll

Width	Colour	Item-No.
20 mm	white	73T17/W
20 mm	peach	73T17/H
20 mm	black	73T17/S

Slight colour deviations are possible for technical production reasons.



Elastic Edge Strap

Material

- 67 % polyester, 17 % cotton, 8 % polyamide (Helanca) und 8 % elastane (Lycra)
- woven
- blue stripes in the middle
- slightly indicated folded edge
- smooth, light quality
- Longitudinal elasticity approx. 100 %
- Colour: black-blue

PU = 25 metres per roll

Width	Item-No.
25 mm	73T8

Slight colour deviations are possible for technical production reasons.



Elastic Trim Strap

Material

- 73 % viscose, 18 % elastodiene (latex) and 9 % polyamide
- woven
- serrated edge on one side
- light quality
- velvety surface on one side
- Longitudinal elasticity approx. 120 %

PU = 25 metres per roll

Width	Colour	Item-No.
16 mm	white	73T13/W
16 mm	peach	73T13/H
16 mm	black	73T13/S

Slight colour deviations are possible for technical production reasons.



Elastic Lace

Material

- 89 % polyamide and 22 % elastane
- extendability approx. 120 %
- colour: white

PU = 25, 50 or 100 metre roll

Width	Item-No.
3,9 mm	79T1/W



Drell, heavy

- Material
- 100 % cotton (CO)
 - woven
 - finished
 - little-patterned, fine herringbone weave
 - residual shrinkage 5 – 6 %

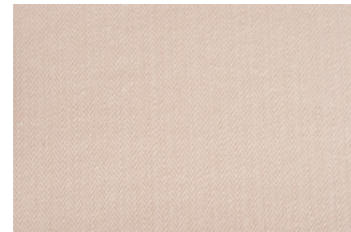
PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	320 g/m ²	2T25/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	5T25S/H
22 mm	peach	30 m	5T4/22H
25 mm	peach	30 m	5T4/25H

Slight colour deviations are possible for technical production reasons.



Drell, light

- Material
- 100 % cotton (CO)
 - woven
 - finished
 - little-patterned, fine herringbone weave
 - residual shrinkage 5 – 6 %

PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	260 g/m ²	2T23/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	5T4/20H
22 mm	peach	30 m	5T4/22H
25 mm	peach	30 m	5T4/25H

Slight colour deviations are possible for technical production reasons.



Drell, medium heavy

- Material
- 100 % cotton (CO)
 - woven
 - finished
 - little-patterned, fine herringbone weave
 - residual shrinkage 5 – 6 %

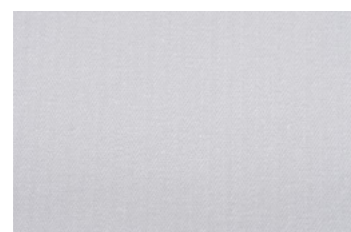
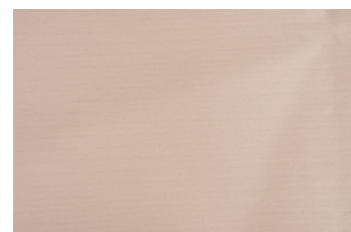
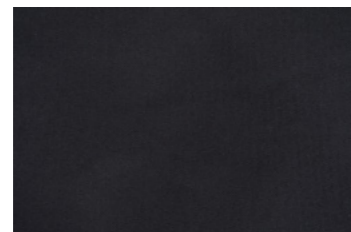
PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	white	280 g/m ²	2T24/W
140 cm	peach	280 g/m ²	2T24/H
140 cm	black	280 g/m ²	2T24/S

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	white	30 m	5T4/20W
20 mm	peach	30 m	5T4/20H
20 mm	black	30 m	5T4/20S
22 mm	peach	30 m	5T4/22H
25 mm	peach	30 m	5T4/25H

Slight colour deviations are possible for technical production reasons.



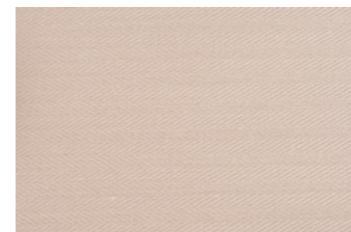
„Drell“ Lining Cloth

- Material
- 100 % cotton (CO)
 - woven
 - finished
 - little-patterned, fine herringbone weave
 - colour: peach
 - residual shrinkage 5 – 6 %

PU = metre, double folded

width	weight	Item-No.
140 cm	220 g/m ²	2T22/H

Slight colour deviations are possible for technical production reasons.



„Twill“ Weave

- Material
- 65 % polyester und 35 % cotton
 - woven
 - finished
 - Twill weave
 - residual shrinkage 5 – 6 %

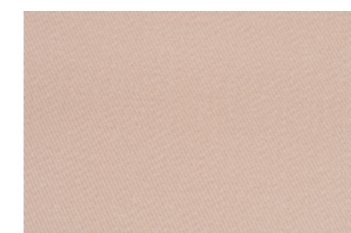
PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	270 g/m ²	2T26/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	5T6/20

Slight colour deviations are possible for technical production reasons.





Lining Cloth



- Material**
- 100 % cotton (CO)
 - woven
 - finished
 - plain weave
 - light quality
 - residual shrinkage 5 – 6 %

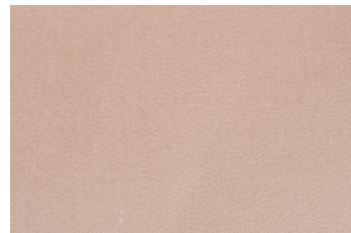
PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	white	140 g/m ²	6T5/W
140 cm	peach	140 g/m ²	6T5/H
140 cm	black	140 g/m ²	6T5/S

Slight colour deviations are possible for technical production reasons.



Diamond-Satin Cloth



- Material**
- 63 % viscose and 37 % cotton
 - woven
 - finished
 - Twill weave
 - medium-strong quality with slightly glossy surface
 - residual shrinkage 5 – 6 %

PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	305 g/m ²	12T4/H

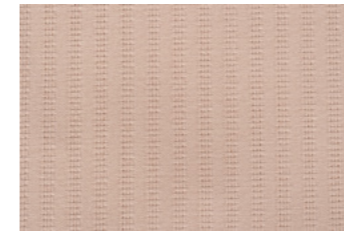
trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	12T4S/H
25 mm	peach	30 m	12T4S/25H

Slight colour deviations are possible for technical production reasons.



Weave for Abdominal Support



- Material**
- 100 % cotton (CO)
 - woven
 - finished
 - plain weave with striped look
 - medium-heavy quality
 - residual shrinkage 5 – 6 %

PU = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	270 g/m ²	4T7/H

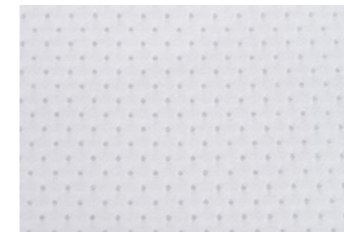
trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	4T7S/H

Slight colour deviations are possible for technical production reasons.



"Jacquard" Cloth "dots"



- Material**
- 80 % cotton and 20 % viscose
 - woven
 - finished
 - Jacquard weave with dot pattern
 - residual shrinkage 5 – 6 %

Sales unit = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	white	320 g/m ²	22T23/W
140 cm	peach	320 g/m ²	22T23/H
140 cm	black	320 g/m ²	22T23/S

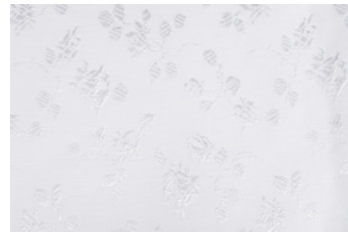
trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	white	30 m	22T23S/W
20 mm	peach	30 m	22T23S/H
20 mm	black	30 m	22T12S/S

Slight colour deviations are possible for technical production reasons.



“Jacquard” Cloth “flowers”



- Material**
- 60 % cotton and 40 % viscose
 - woven
 - finished
 - Jacquard weave with woven rose pattern
 - residual shrinkage 5 – 6 %

Sales unit = metre, double folded

width	colour	weight	Item-No.
140 cm	white	285 g/m ²	22T8/W
140 cm	black	285 g/m ²	22T8/S

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	white	30 m	22T8S/W
20 mm	black	30 m	22T8S/S

Slight colour deviations are possible for technical production reasons.



“Jacquard” Cloth “diamonds”



- Material**
- 55 % cotton and 45 % viscose
 - woven
 - finished
 - jacquard weave with woven diamond pattern
 - residual shrinkage 5 – 6 %

Sales unit = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	285 g/m ²	22T40/H

trip strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	22T40S/H

Slight colour deviations are possible for technical production reasons.



- Material**
- 80 % cotton and 20 % viscose
 - woven
 - finished
 - jacquard weave with woven dot pattern in two colours (white/copper)
 - residual shrinkage 5 – 6 %

Sales unit = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	320 g/m ²	22T76/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	22T76S/H

Slight colour deviations are possible for technical production reasons.



“Jacquard” Cloth “flowers”



- Material**
- 60 % cotton and 40 % viscose
 - woven
 - finished
 - jacquard weave with woven flower twines in two colours (white/olive)
 - residual shrinkage 5 – 6 %

Sales unit = metre, double folded

Width	Colour	Weight	Item-No.
140 cm	peach	285 g/m ²	22T77/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	22T77S/H

Slight colour deviations are possible for technical production reasons.



“Jacquard” Cloth “Squares”



- Material**
- 80 % cotton and 20 % viscose
 - woven
 - finished
 - jacquard weave with woven diamond pattern in two colours (white/copper)
 - residual shrinkage 5 – 6 %

Width	Colour	Weight	Item-No.
140 cm	peach	325 g/m ²	22T78/H

trim strap (double folded)

Width	Colour	PU	Item-No.
20 mm	peach	30 m	22T78S/H

Slight colour deviations are possible for technical production reasons.



Terry Cloth



- Material**
- 83 % cotton and 17 % polyester
 - knit
 - terry cloth with loops on one side, height approx. 1 mm
 - light, soft quality
 - stretchable

- Recommendation**
- iron on the bottom side

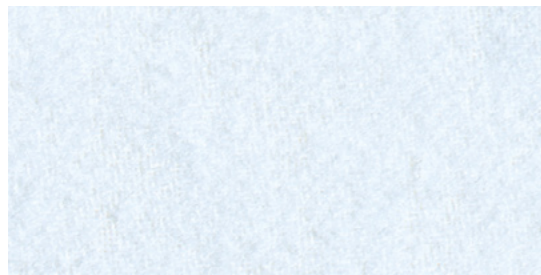
PU = metre

Width	Colour	Weight	Item-No.
150 cm	white	190 g/m ²	9T2/W
150 cm	peach	190 g/m ²	9T2/H
150 cm	dark blue	190 g/m ²	9T2/B
150 cm	light grey	190 g/m ²	9T2/G

Slight colour deviations are possible for technical production reasons.



Pressed Cotton Fibre „Molton“



- Material**
- 100 % cotton (CO)
 - woven
 - roughed up on both sides
 - medium-heavy, soft quality
 - residual shrinkage approx. 10 %
 - colour: white

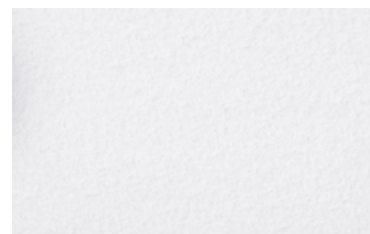
PU = metre, double folded

Width	Weight	Item-No.
150 cm	230 g/m ²	29T1/W

Slight colour deviations are possible for technical production reasons.



Soft Foam with Lamination on Both Sides



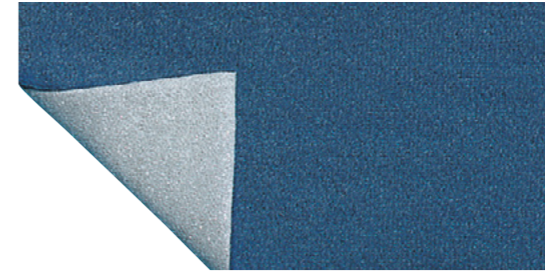
- Material**
- front side: 100 % polyamide
 - back side: 100 % polyester
 - rubber foam: 100 % PUR-soft foam
 - rubber foam with lamination on both sides
 - front surface: suitable to cling to hook- and loop fasteners
 - back surface: soft fleece
 - material height 5 mm
 - colour: white

PU = metre

Width	Weight	Item-No.
145 cm	340 g/m ²	49T9/W



Soft Foam with Lamination on One Side



- Material**
- velour: 100 % polyester
 - soft foam: 100 % polyurethan
 - knit
 - soft foam with lamination on one side
 - velour, compatible with hook fasteners
 - material height 5 mm
 - colour: blue

PU = metre

Width	Weight	Item-No.
145 cm	230 g/m ²	49T5/BL



Foam, laminated on both sides



- Material**
- foam and velours: 100 % polyamid
 - terry cloth: 100 % polyurethan
 - knit
 - Foam laminated on both sides
 - velour, compatible with hook fasteners
 - terry cloth highly absorbent
 - material height 7 mm
 - colour: blue/grey

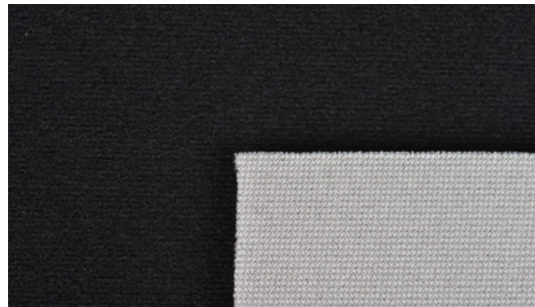
PU = metre

Width	Weight	Item-No.
150 cm	600 g/m ²	49T6

Slight colour deviations are possible for technical production reasons.



Foam, laminated on both sides



- Material**
- front side: 100 % polyamide, black
 - back side: 100 % cotton, grey
 - foam: 100 % PUR-ester
 - knit
 - Foam, laminated on both sides
 - front side compatible with Velcro, black
 - back side with 100 % cotton jersey, grey
 - material height 10 mm
 - colour: black/grey

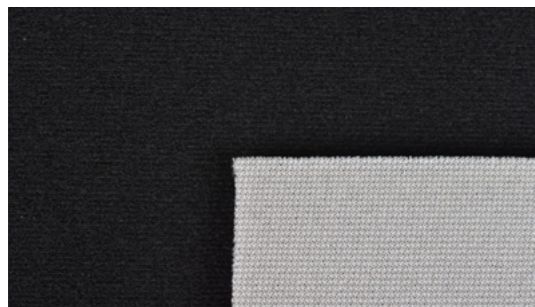
PU = metre

Width	Weight	Item-No.
150 cm	700 g/m ²	49T8

Slight colour deviations are possible for technical production reasons.



Lining Cloth for Seating Shells



- Material**
- front side: 100 % polyamide
 - back side: 100 % polyester
 - rubber foam: 100 % polyurethane
 - knit
 - rubber foam with lamination on both sides
 - front side compatible with hook fasteners
 - back side with thin knit fabric
 - material height 2,5 mm
 - colour: black

PU = metre

Width	Weight	Item-No.
140 cm	300 g/m ²	26T10



Anti-Decubitus Fleece



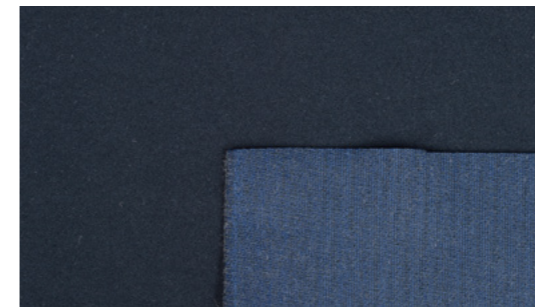
- Material**
- 100 % polyester
 - knit
 - antistatic
 - nap height approx. 25 mm
 - sterilizable up to 140 °C
 - colour: white

PU = metre

Width	Weight	Item-No.
140 cm	1050 g/m ²	26T1/W



„Alcantara“ Support Fabric



- Material**
- 50 % polyamide and 50 % polyurethane
 - knit
 - synthetic velour leather
 - transversal elasticity approx. 40 %

Recommendation

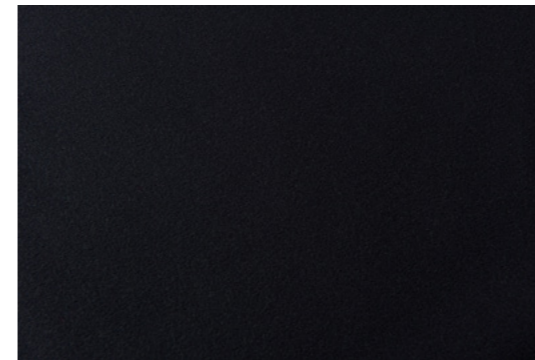
- iron on the bottom side, do not spin-dry

PU = metre

Width	Colour	Weight	Item-No.
140 cm	blue	210 g/m ²	26T3/BL



Velours Double Sided, Compatible to Hook and Loop Fastener



- Material**
- outer faces: 73 % polyamide
 - internal layer: 27 % polyurethane
 - knit
 - tensile strength (not dilatable) in both directions
 - both sides are compatible with hook fasteners
 - permanent join through internal PUR coating
 - heavy quality
 - easy to cut and to punch
 - colour: black

PU = metre

Width	Weight	Item-No.
135 cm	700 g/m ²	26T7/S



Velour Lining Cloth



- Material**
- 66 % cotton and 34 % polyester
 - knit with included low nap
 - soft, light quality
 - stretchable

Recommendation

- iron on the bottom side

PU = metre

Width	Colour	Weight	Item-No.
155 cm	blue	220 g/m ²	26T20/B
155 cm	red	220 g/m ²	26T20/R
155 cm	black	220 g/m ²	26T20/S

Slight colour deviations are possible for technical production reasons.



Imitation Leather (Skai)

Material
 • imitation leather


Application
 • classic covering material for examination tables and positioning aids

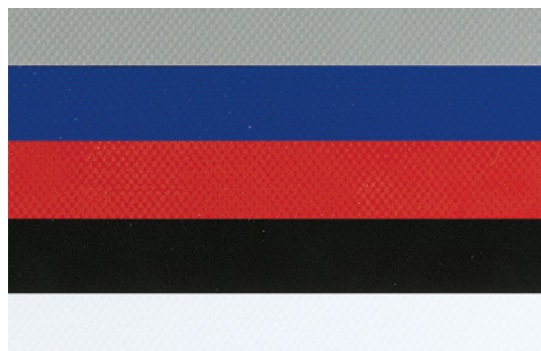
Characteristics
 • bi-elastic
 • with fabric lining
 • flame retardant
 • long-lived
 • UV-resistant
 • skin-friendly
 • liquid-repellent
 • tearproof
 • disinfectable

PU = running metre

Width x Thickness	Colour	Item-No.
approx. 1400 x 0,9 mm	blue	110P10/B
approx. 1400 x 0,9 mm	beige	110P10/BG
approx. 1400 x 0,9 mm	brown	110P10/BR
approx. 1400 x 0,9 mm	grey	110P10/G
approx. 1400 x 0,9 mm	olive	110P10/OL
approx. 1400 x 0,9 mm	black	110P10/S
approx. 1400 x 0,9 mm	white	110P10/W

Upon request, we offer artificial leather in different qualities, colours and embossments.

 You may use our disinfectant cleaner item-no. 116P17 to clean the imitation leather.



Plastic Sheeting

Material
 • truck canvas

Application
 • for seat and back rest lining

Characteristics
 • extremely durable
 • incontinence resistant
 • washable
 • sewable

PU = running metre

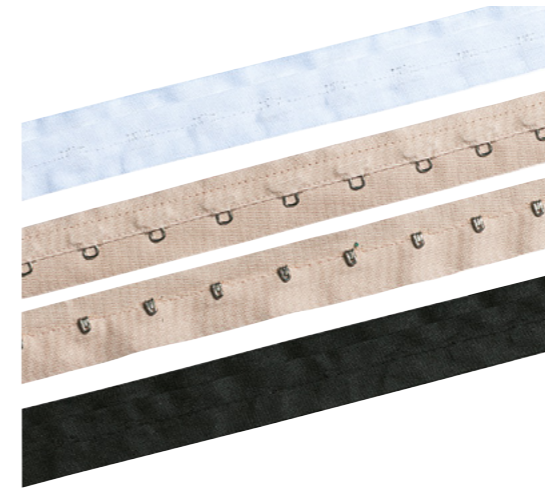
Width x Thickness	Colour	Item-No.
approx. 2500 x 0,5 mm	blue	110P17/BL
approx. 2500 x 0,5 mm	white	110P17/W
approx. 2500 x 0,5 mm	grey	110P17/GR
approx. 2500 x 0,5 mm	red	110P17/RO
approx. 2500 x 0,5 mm	black	110P17/S



Hook and Loop Strap

Material
 • 100 % cotton (CO)
 • hooks and loops: spring steel wire coated with polyamide (nickel-free)
 • woven
 • simple version with sewed in hooks and loops
 • interspace approx. 3 cm

PU = 10 or 25 m per roll



Description	Colour	Item-No.
Hook strap	white	60T4H/W
Hook strap	peach	60T4H/H
Hook strap	black	60T4H/S
Loop strap	white	60T4A/W
Loop strap	peach	60T4A/H
Loop strap	black	60T4A/S

Slight colour deviations are possible for technical production reasons.



Hook and Loop Strap

Material
 • 100 % cotton (CO)
 • hooks and loops: spring steel wire, brass, miralloy coating (nickel-free)
 • woven
 • heavy version with big riveted hooks and loops
 • interspace approx. 3 cm
 • colour: peach

PU = 10 or 25 m per roll



Description	Item-No.
Hook strap	60T8H/H
Loop strap	60T8A/H

Slight colour deviations are possible for technical production reasons.



Hook and Loop Strap



- Material**
- 100 % cotton (CO)
 - hooks and loops: spring steel wire coated with polyamide (nickel-free)
 - woven
 - simple version with sewed hooks and loops, interspace approx. 3 cm
 - loop strap with two rows and plush/velvet base
 - plush with one open back side

PU = 10 or 25 m per roll

Description	Colour	Item-No.
Hook strap	white	60T19H/W
Hook strap	peach	60T19H/H
Hook strap	black	60T19H/S
Loop strap	white	60T19A/W
Loop strap	peach	60T19A/H
Loop strap	black	60T19A/S

Slight colour deviations are possible for technical production reasons.



Hook and Loop Strap

without picture

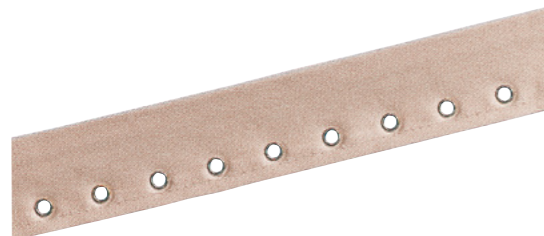
- Material**
- 100 % cotton (CO)
 - hooks and loops: spring steel wire coated with polyamide (nickel-free)
 - woven
 - simple version with sewed in hooks and loops
 - interspace approx. 3 cm

PU = 10 or 25 m per roll

Designation	Colour	Item-No.
Hook Strap	white	60T10H/W
Loop Strap	white	60T10A/W



Eyelet Strap



- Material**
- 100 % cotton (CO)
 - eyelets: spring steel wire, brass, miralloy coating (nickel-free)
 - woven
 - herringbone weave
 - colour: peach

PU = 25 metres per roll

Item-No.
60T13/H

Slight colour deviations are possible for technical production reasons.



Corset Webbing Strap



- Material**
- 100 % cotton (CO)
 - brushed surface
 - woven with firm edge
 - colour: peach

PU = 25 metres per roll

Width	Item-No.
21 mm	89T7/21H

Slight colour deviations are possible for technical production reasons.



Corset Webbing Pre-cuts



- Material**
- 100 % cotton (CO)
 - brushed surface
 - punched edges with zigzag selvedge, respectively scallop
 - colour: peach

PU = bag of 100 pcs

Width	Length	Colour	Item-No.
21 mm	3 cm	peach	90T3/21H

Slight colour deviations are possible for technical production reasons.



Lacing Strap



- Material**
- 100 % cotton and 100 % polyamide
 - tubular braid

PU = 100 metres per roll

Width	Colour	Material	Item-No.
4 mm	white	polyamide	76T8/W
4 mm	peach	polyamide	76T8/H
4 mm	black	polyamide	76T8/S
6 mm	white	cotton	76T16/W
6 mm	peach	cotton	76T16/H
6 mm	black	cotton	76T16/S
8 mm	white	cotton	76T7/W
8 mm	peach	cotton	76T7/H
8 mm	black	cotton	76T7/S



„Synton“ Polyester Thread

Material

- 100 % polyester multi-filament twisted yarn
- brilliant fibre type
- high tear- and abrasion resistance

PU = 1 kingspool roll (600 m, 900 m or 1800 m)



colour	length	Designation	Recommendation needle strength Nm	Item-No.
white	600 m	Serafil No. 20	120-140	91T9/20W
peach	600 m	Serafil No. 20	120-140	91T9/20H
black	600 m	Serafil No. 20	120-140	91T9/20S
white	900 m	Serafil No. 30	110-130	91T9/30W
peach	900 m	Serafil No. 30	110-130	91T9/30H
golden	900 m	Serafil No. 30	110-130	91T9/30GO
brown	900 m	Serafil No. 30	110-130	91T9/30BR
blue	900 m	Serafil No. 30	110-130	91T9/30BL
red	900 m	Serafil No. 30	110-130	91T9/30R
black	900 m	Serafil No. 30	110-130	91T9/30S
white	1800 m	Serafil No. 60	80-100	91T9/60W
peach	1800 m	Serafil No. 60	80-100	91T9/60H
yellow	1800 m	Serafil No. 60	80-100	91T9/60GB
blue	1800 m	Serafil No. 60	80-100	91T9/60BL
red	1800 m	Serafil No. 60	80-100	91T9/60R
black	1800 m	Serafil No. 60	80-100	91T9/60S



Recommendation

Serafil No. 20: Thicker thread size for especially heavy-weight material and thicker leather.
 Serafil No. 30: Medium thread suitable for shoes, cushionings, leather and technical fabrics.
 Serafil No. 60: Fine thread size for gloves, shoes, cushionings, zippers and multi-needle quilting.



Polyester/Cotton Thread

functional sewing thread for diverse applications

Material

- 70 % polyester und 30 % cotton
- polyester yarn braided with cotton

PU = cone (2000 m, 2750 m or 5000 m)

PU = crosswinding spool (1000 m)



Colour	Length	Description	Recommended needle size	Item-No.
white	2750 m	Rasant 25/3	130-160	91T7/25W
peach	2750 m	Rasant 25/3	130-160	91T7/25H
medium blue	2750 m	Rasant 25/3	130-160	91T7/25B
black	2750 m	Rasant 25/3	130-160	91T7/25S
red	2750 m	Rasant 25/3	130-160	91T7/25R
golden yellow	2750 m	Rasant 25/3	130-160	91T7/25GB
dark brown	2750 m	Rasant 25/3	130-160	91T7/25BR
medium grey	2750 m	Rasant 25/3	130-160	91T7/25G
off-white	2000 m	Rasant 25/3	130-160	91T7/25ROH
white	1000 m	Rasant 50/3	100-110	91T7/50W
peach	1000 m	Rasant 50/3	100-110	91T7/50H
medium blue	1000 m	Rasant 50/3	100-110	91T7/50B
black	1000 m	Rasant 50/3	100-110	91T7/50S
red	1000 m	Rasant 50/3	100-110	91T7/50R
golden yellow	1000 m	Rasant 50/3	100-110	91T7/50GB
dark brown	1000 m	Rasant 50/3	100-110	91T7/50BR
medium grey	1000 m	Rasant 50/3	100-110	91T7/50G
off-white	1000 m	Rasant 50/3	100-110	91T7/50ROH
white	5000 m	Rasant 50/3	100-110	91T7/50WC
peach	5000 m	Rasant 50/3	100-110	91T7/50HC
white	1000 m	Rasant 75/2	90-100	91T7/75W
peach	1000 m	Rasant 75/2	90-100	91T7/75H
medium blue	1000 m	Rasant 75/2	90-100	91T7/75B
black	1000 m	Rasant 75/2	90-100	91T7/75S
red	1000 m	Rasant 75/2	90-100	91T7/75R
golden yellow	1000 m	Rasant 75/2	90-100	91T7/75GB
dark brown	1000 m	Rasant 75/2	90-100	91T7/75BR
medium grey	1000 m	Rasant 75/2	90-100	91T7/75G
off-white	1000 m	Rasant 75/2	90-100	91T7/75ROH
white	5000 m	Rasant 75/2	90-100	91T7/75WC
peach	5000 m	Rasant 75/2	90-100	91T7/75HC



Recommendation

Rasant 25/3: Thicker thread size, for highly stressed and decorative seams on leather, heavy duty fabric, for example tents and tarpaulin.
 Rasant 50/3: Medium thread thickness, suitable for highly stressed seams on leather, denim and cushions.
 Rasant 75/2: Finer thread size for example for clothing, mattresses, cushions, quilts. Also suitable for upper threads for embroidery.



Cotton Yarn „Kette“ 40/3

fine thread size, dyeable, serves as a sewing, finishing seam, decorative and button hole yarn

Material

- 100 % cotton mercerized, long staple
- firm, brilliant fibre type

PU = crosswinding spool (500 m)
PU = cone (5000 m)



Colour	Length	Designation	Recommendation needle strength Nm	Item-No.
white	500 m	Cotton Yarn „Kette“ 40/3	90-100	91T14/1W
caucasian	500 m	Cotton Yarn „Kette“ 40/3	90-100	91T14/1H
black	500 m	Cotton Yarn „Kette“ 40/3	90-100	91T14/1S

Suitable for clothing, articles of corsetry, underwear and household textiles.

Waxed Linen Thread for Saddle-Machines

Material

- 100 % linen, starched
- firm, smooth, brilliant fibre type

PU = crosswinding spool (440 m, 650 m or 880 m)



Colour	Length	Designation	Recommendation Needle strength Nm	Item-No.
raw grey	P880 m	18/3	150-170	96T2/3RH
yellow	P880 m	18/3	150-170	96T2/3GB
brown	P880 m	18/3	150-170	96T2/3BR
raw grey	650 m	18/4	180-200	96T2/4RH
yellow	650 m	18/4	180-200	96T2/4GB
brown	650 m	18/4	180-200	96T2/4BR
raw grey	440 m	18/6	210-230	96T2/6RH
yellow	440 m	18/6	210-230	96T2/6GB

Recommendation
Waxed machine yarn 18/3: Thick thread for heavy materials, felt and leather. Also for decorative sewing, broadcloth-seams and backstitch-seams.
Waxed machine yarn 18/4: extra thick thread.
Waxed machine yarn 18/6: thread twice as thick than 18/3.



Linen Thread for Sewing Machines

Material

- 100 % linen, starched
- firm, brilliant fibre type

PU = 1 plastic roll (290 m, 400 m, 470 m or 540 m)

Colour	Length	Designation	Recommendation needle strength Nm	Item-No.
raw grey	290 m	30/3	110-130	97T2/30RH
raw grey	540 m	60/3	80-100	97T2/60RH

Recommendation:
Sewing machine thread 30/3: Medium thread size.
Sewing machine thread 40/3: Fine thread size.
Sewing machine thread 50/3: Very fine thread size.
Sewing machine thread 60/3: Twice fine thread size.



Tying Cord

Material

- 100 % natural fibers (flax, hemp)
- colour: beige-grey

PU = 1 roll

Roll	Item-No.
160 g	99T3

Buckle

Material

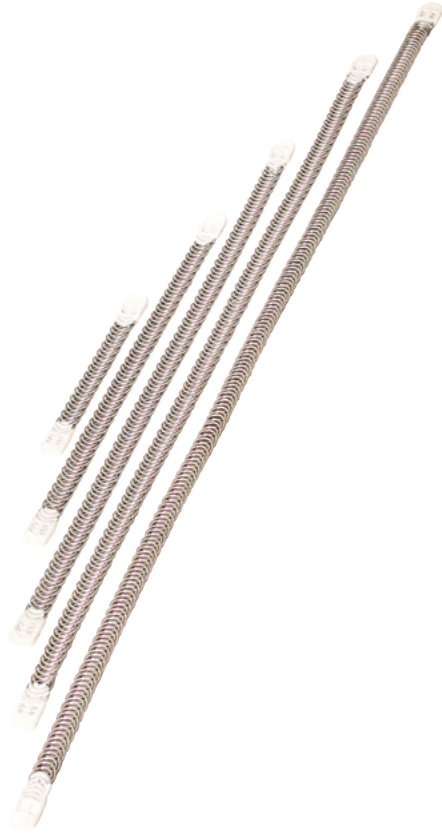
- made of spring band steel with plastic coating
- colour: white

PU = 1 piece



Length	Item-No.
20 cm	56P3/20
22 cm	56P3/22
26 cm	56P3/26
36 cm	56P3/36

Spiral Coil with Plastic Caps



Material

- steel wire zinc-plated
- material thickness: 0,9 mm
- dip painted cap

Characteristics

- enables sideways movement transversely to spring direction
- sewable plastic ends
- zinc-plating protects from corrosion

PU = bunch of 30 pcs

Dimensions L x W	Item-No.
10 cm x 11 mm	50P22/10
12 cm x 11 mm	50P22/12
14 cm x 11 mm	50P22/14
16 cm x 11 mm	50P22/16
18 cm x 11 mm	50P22/18
20 cm x 11 mm	50P22/20
22 cm x 11 mm	50P22/22
24 cm x 11 mm	50P22/24
26 cm x 11 mm	50P22/26
28 cm x 11 mm	50P22/28
30 cm x 11 mm	50P22/30
32 cm x 11 mm	50P22/32
34 cm x 11 mm	50P22/34
36 cm x 11 mm	50P22/36
38 cm x 11 mm	50P22/38

Spiral Coil with Metal Caps



Material


- steel wire zinc-plated
- material thickness: 0,9 mm

Characteristics

- enables sideways movement transversely to spring direction
- zinc-plating protects from corrosion

PU = bunch of 30 pcs

Dimensions L x W	Item-No.
10 cm x 11 mm	50P11/10
12 cm x 11 mm	50P11/12
14 cm x 11 mm	50P11/14
16 cm x 11 mm	50P11/16
18 cm x 11 mm	50P11/18
20 cm x 11 mm	50P11/20
22 cm x 11 mm	50P11/22
24 cm x 11 mm	50P11/24
26 cm x 11 mm	50P11/26
28 cm x 11 mm	50P11/28
30 cm x 11 mm	50P11/30
32 cm x 11 mm	50P11/32
34 cm x 11 mm	50P11/34
36 cm x 11 mm	50P11/36
38 cm x 11 mm	50P11/38
40 cm x 11 mm	50P11/40
42 cm x 11 mm	50P11/42
44 cm x 11 mm	50P11/44
46 cm x 11 mm	50P11/46
48 cm x 11 mm	50P11/48

 Replacement metal caps item-no. 53P3 and replacement plastic caps item-no. 57P6 are available.



Spiral Coil with Metal Caps

Material


- steel wire zinc-plated
- material thickness 0,75 mm

Characteristics

- enables sideways movement transversely to spring direction
- zinc-plating protects from corrosion

PU = bunch of 30 pcs

Dimensions Length x Width	Item-No.
10 cm x 5 mm	50P5/10
12 cm x 5 mm	50P5/12
24 cm x 5 mm	50P5/24
26 cm x 5 mm	50P5/26
28 cm x 5 mm	50P5/28
30 cm x 5 mm	50P5/30
32 cm x 5 mm	50P5/32
34 cm x 5 mm	50P5/34
36 cm x 5 mm	50P5/36
38 cm x 5 mm	50P5/38
40 cm x 5 mm	50P5/40
42 cm x 5 mm	50P5/42
8 cm x 7 mm	50P7/8
46 cm x 7 mm	50P7/46
48 cm x 7 mm	50P7/48

 Replacement caps item-no. 53P3 are available.



Flat Coil Strip „Cellon“

Material


- coated spring steel strip
- spring ends are plastic coated
- material thickness 0.4 mm (53P3) or 0.5 mm (53P7)
- colour: white

Properties

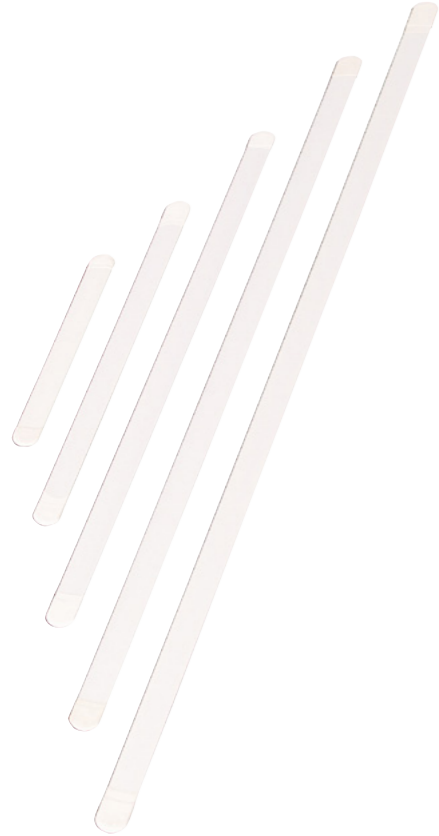
- the cellon spring is corrosion-proof and swear-resistant due to the coating

PU = bunch of 30 pcs

Dimensions Length x Width	Item-No.
36 cm x 7 mm	53P7/36W
38 cm x 7 mm	53P7/38W
40 cm x 7 mm	53P7/40W
42 cm x 7 mm	53P7/42W
44 cm x 7 mm	53P7/44W
46 cm x 7 mm	53P7/46W
48 cm x 7 mm	53P7/48W
50 cm x 7 mm	53P7/50W

 Replacement caps item-no. 57P4 are available.

Flat Coil Strip „Cellon“



Material


- coated spring steel strip
- spring ends are plastic coated
- material thickness: 0,4 mm
- colour: white

Characteristics

- the cellon spring is corrosion-proof and swear-resistant due to the coating

PU = bunch of 30 pcs

Dimensions Length x Width	Item-No.
8 cm x 12 mm	53P12/8W
10 cm x 12 mm	53P12/10W
12 cm x 12 mm	53P12/12W
14 cm x 12 mm	53P12/14W
16 cm x 12 mm	53P12/16W
18 cm x 12 mm	53P12/18W
20 cm x 12 mm	53P12/20W
22 cm x 12 mm	53P12/22W
24 cm x 12 mm	53P12/24W
26 cm x 12 mm	53P12/26W
28 cm x 12 mm	53P12/28W
30 cm x 12 mm	53P12/30W
32 cm x 12 mm	53P12/32W
34 cm x 12 mm	53P12/34W
36 cm x 12 mm	53P12/36W
38 cm x 12 mm	53P12/38W
40 cm x 12 mm	53P12/40W
42 cm x 12 mm	53P12/42W
44 cm x 12 mm	53P12/44W
46 cm x 12 mm	53P12/46W
48 cm x 12 mm	53P12/48W
50 cm x 12 mm	53P12/50W

 Replacement caps item-no. 57P6 are available.

Spring Steel Strip „Wigona“

strong version

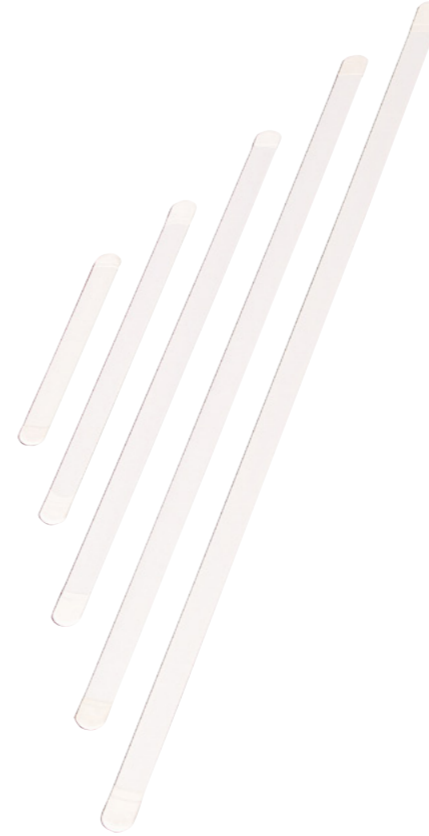
Material

- coated spring steel strip
- spring ends are plastic coated
- material thickness: 1,2 mm
- colour: white

Characteristics

- the cellon spring is corrosion-proof and swear-resistant due to the coating

PU = 1 piece



Dimensions Length x Width	Item-No.
12 cm x 15 mm	51P1/12
14 cm x 15 mm	51P1/14
16 cm x 15 mm	51P1/16
18 cm x 15 mm	51P1/18
20 cm x 15 mm	51P1/20
22 cm x 15 mm	51P1/22
24 cm x 15 mm	51P1/24
26 cm x 15 mm	51P1/26
28 cm x 15 mm	51P1/28
30 cm x 15 mm	51P1/30
32 cm x 15 mm	51P1/32
34 cm x 15 mm	51P1/34
36 cm x 15 mm	51P1/36
38 cm x 15 mm	51P1/38
40 cm x 15 mm	51P1/40
42 cm x 15 mm	51P1/42
44 cm x 15 mm	51P1/44
46 cm x 15 mm	51P1/46
48 cm x 15 mm	51P1/48

Steel Spiral Strip, endless

Material

- steel wire zinc-plated


Characteristics

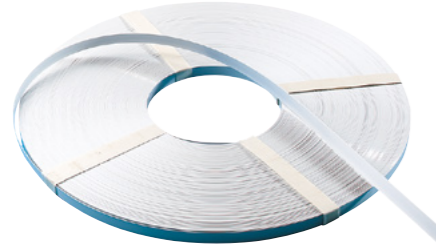
- enables sideways movement transversely to spring direction
- zinc-plating protects from corrosion

PU = 1 roll



Length m/kg x Width	Roll	Item-No.
approx. 35 m x 5 mm	approx. 2,0 kg	50P5E
approx. 28 m x 7 mm	approx. 2,0 kg	50P7E
approx. 17 m x 11 mm	approx. 3,0 kg	50P11E

 Please order metal caps item-no. 53P3 for coating the cut-off spiral spring ends. For width 11 mm, plastic caps item-no. 57P6 are available.



Spring Steel Strip „Cellon“, endless

- Material**
- coated spring steel strip
 - coated with synthetic
 - material thickness: 0,7 mm
 - colour: white

PU = 1 roll (approx. 2 kg)

Length m/kg x Width	Item-No.
approx. 23 m x 12 mm	53P12EW

 For protection, please wrap the cut-off „Cellon“ strips with self-adhesive tape.



„Desira“ Plastic Strap, endless

sewable

- Material**
- 3-5 monofilaments coated with synthetic (the bar can be sewn on between the sections)

- Characteristics**
- resistant against cleaners, salts, body fluids and embrittling
 - permanent spring- and restoring force
 - cannot break or chip

PU = 100 metre roll in dispenser box

Length x Width x Thickness	Item-No.
100 m x 4,4 mm x 1,2 mm	52P15E
100 m x 11 mm x 1,75 mm	52P21E



Steel Cap for Steel Spiral Strip

PU = 200 g

Width	Description	Item-No.
5 mm	Cap for item 50P5	53P3/5
7 mm	Cap for item 50P7	53P3/7
11 mm	Cap for item 50P11	53P3/11



Steel Cap for Stainless Steel Strip „Cellon“

PU = 200 g

Width	Description	Quantity	Bestell-Nr.
5 mm	cap for 53P5	approx. 3.800 piece	57P4/5
7 mm	cap for 53P7	approx. 2.800 piece	57P4/7



Plastic Cap

- Material**
- 100% polyethylene (PE)

- Application**
- for spiral strip item-no. 50P11

PU = 50 pcs and 100 pcs

Width	Item-No.
11 mm	57P6



Suspender Buckle „Velvet“

- Material**
- metal holder: with nickel-free coating
 - exchangeable strap flap: 100 % cotton (CO),
 - length: 55 mm
 - flat head: 100 % polyethylene (PE)

PU = 50 pieces

Opening	Colour	Item-No.
20 mm	peach	45P20/20H
20 mm	white	45P20/20W
20 mm	black	45P20/20S
30 mm	peach	45P20/30H

 Can be used together with elastic garter-strap item-no. 66T10.



Cotton Strap

Material

- exchangeable strap flap: cotton (CO)
- flat head: polyethylene (PE)

PU = 50 pieces

Length	Width	Colour	Description	Item-No.
55 mm	15 mm	peach	Cotton strap long	46P5/H
55 mm	15 mm	white	Cotton strap long	46P5/W

Subsequent item for velvet item-no. 45P20.

Insoles & Insole Material



Insoles & Insole Material

Due to its anatomical nature, the human foot is designed to walk on natural grounds and without the use of high heels. An often flat (artificial) floor and the unnatural inclined position of the foot due to heels will result in an impairment of the foot and therefore in podalgia. The majority of humans are born with healthy feet. Foot damages predominantly develop in the course of time only. The causes are disposition and overweight on the one hand and hard grounds and wrong footwear on the other hand, but wear, sport injuries or rheumatic changes, circulatory disorders or neuropathies (Diabetes) contribute as well.

The foot supports respectively controls the entire supporting ligaments and locomotor apparatus of the body. Malpositions of the foot are therefore often the cause for articular damages of the knee, the hip or the spinal column. Therefore insoles have the prime purpose of correcting, supporting or cushioning any foot deformities and they are used for a large number of indications such as splayfoot, flatfoot, pes cavus, pes valgus, hallux-valgus or calcaneal spur.

On the following pages we present you with a selection of prefabricated insoles. In addition, you will find small parts such as metatarsal and longitudinal pads. All fabrication materials used to manufacture prefabricated insoles are of the highest quality, offer the best processing characteristics and have been tested to be skin-friendly.

A large number of materials are available to manufacture insoles. Besides classic materials such as aluminum, steel and cork, we are a competent and reliable supplier for all kinds of synthetic materials which are predominantly used today. By using specific combinations of materials it is possible to individually adjust the desired functionality of a prefabricated insole.

This works with thermoplastic materials for supporting and compensating insoles as well as with several soft foams for soft cushioning accommodative insoles.



Types of insoles

- Directly molded insoles/support insoles

In case of false posture and position, first a congruent copy of the foot is made in order to manufacture true-to-pattern arch supports. The insole supports the foot at its weak points – in the heel region (pes valgus), in the longitudinal arch region (flatfoot) or in the region of the forefoot (splayfoot) depending on the deformity of the foot. The aim is to maintain the form of the foot under load conditions.

- Embedding insoles

As already expressed by its name, this insole is cushioning and unloading the foot by re-distributing the pressure in specific areas. At the same time, the foot can be protected by using shock-absorbent materials. Thereby this type of insole distributes the weight of the body evenly and broadly. Embedding insoles are used for instance to correct flat feet or pes equinovarus as well as in the case of diabetic, neuropathic and rheumatic feet. However, stable or appropriate footwear is recommended for care purposes.

- Correcting insoles

The correcting insole is an insole for growth control. The intention is to explicitly correct malpositions of the foot and to prevent further impairment. The insole is primarily used for children or teenagers till the end of the growth, on the condition that the malposition of a growing foot can be corrected manually and without great effort. Correcting insoles can be prescribed in the case of pes planovalgus, pes varus (after treatment with plaster) and pes adductus or pes metatarsus.

As a rule, indications are

- Splayfoot (pes metatarsus) Flattening of the transverse arch and widening of the forefoot
- Flatfoot No longitudinal arch of the foot, which is completely lying flush
- Pes cavus Distinct longitudinal arch, supination of the rearfoot, pronation of the forefoot
- Pes valgus Lowering of the longitudinal arc, rearfoot in valgus position
- Calcaneal spur Pressure and pain on weight bearing (formation of calcar) at calcaneal bone, pain on pressure in the medial area of the calcaneal walking area
- Hallux valgus Describes the transverse position of the great toe within the basal joint towards the outside
- Pes adductus Foot deformity with adduction position of the forefoot
- Pes varus Pes equinus position of the entire foot
- Pes calcaneus Low position of the heel, dorsally inclined
- Pes equinus Contracted plantar arching of the upper ankle joint



3-Point EVA Foam Insole

Material

- base layer: EVA (ethylene vinyl acetate), 40-45 Shore A, colour: silvergrey
- top layer: EVA (ethylene vinyl acetate), 20-25 Shore A, colour: blue, perforated

Characteristics

- cup-type design, double layer
- with metatarsal pad
- shock absorption for heels, balls and toes
- sizes (GR): 34-48
- weight level: 60-80 kg

PU = 1 pair

Version	Item-No.
cup-type design	105P36/GR

Please indicate size when ordering!



3-Point EVA Foam Insole

Material

- base layer: EVA (ethylene vinyl acetate), 40-45 Shore A, colour: silvergrey
- top layer: EVA (ethylene vinyl acetate), 20-25 Shore A, colour: blue, perforated

Characteristics

- flat cup-type design, double layer
- with metatarsal pad, drop-shaped
- shock absorption for heels, balls and toes
- sizes (GR): 34-48
- weight level: 60-80 kg

PU = 1 pair

Version	Item-No.
flat cup-type design	105P22/GR



3-Point EVA Foam Insole

Material

- base layer: EVA (ethylene vinyl acetate), 40-45 Shore A, colour: silvergrey
- top layer: EVA (ethylene vinyl acetate), 20-25 Shore A, colour: blue, perforated

Characteristics

- flat cup-type design, double layer
- with metatarsal pad, drop-shaped
- shock absorption for heels, balls and toes
- sizes (GR): 34-48
- weight level: > 80 kg

PU = 1 pair

Version	Item-No.
flat cup-type design	105P23/GR



Threflex Insole

Material

- base layer: Colourfoam (polyethylene), approx. 40-45 Shore A, colour: white
- top layer: PPT (polyurethane), approx. 13 Shore A, colour: peach

Characteristics

- cup-type design, double layer
- without metatarsal pad
- medial longitudinal arch support
- PPT is a very soft, permanently resilient foam with very high restoring force
- permanently resilient
- sizes (GR): 34-48

PU = 1 pair

Version	Item-No.
saucer type	105P61/GR

Please indicate size when ordering!



Soft Foam Insole

Material

- base layer: plastazote (cell-polyethylen-foam, LDPE), 15-20 Shore A, colour: white
- top layer: plastazote (cell-polyethylen-foam, LDPE), 15-20 Shore A, colour: peach, perforated

Characteristics

- double layer
- semi-cup type design without metatarsal pad
- sizes (GR): 35-48

PU = 1 pair

Version	Item-No.
for insoles with deep heel cup (flat)	105P107/GR

Please indicate size when ordering!



Soft Foam Insole

Material

- plastazote (cell-polyethylen-foam, LDPE), 15-20 Shore A
- colour: white

Characteristics

- single layer
- cup-type design with metatarsal pad
- sizes (GR): 34-48

PU = 1 pair

Version	Item-No.
cup-type design	105P103/GR

Please indicate size when ordering!



EVA Foam Insole

Material

- EVA (ethylene vinyl acetate)
- approx. 20-25 Shore A
- colour: blue

Characteristics

- single layer
- semi-cup type design without metatarsal pad
- sizes (GR): 36-48

PU = 1 pair

Version	Item-No.
for insoles with semi-cup-design (flat)	105P101/GR

Please indicate size when ordering!



EVA Foam Insole

Material

- base layer: EVA (ethylene vinyl acetate), volume weight: 100 kg/m³, colour: white
- top layer: EVA (ethylene vinyl acetate), 40-45 Shore A, colour: blue, perforated

Characteristics

- double layer
- cup-type design with metatarsal pad
- sizes (GR): 34-48

PU = 1 pair

Version	Item-No.
cup-type design	105P105/GR

Please indicate size when ordering!



Cork Insole for Children

Material

- base layer: made of thermo-moldable cork, approx. 50-55 Shore A
- top layer: EVA 4-coloured

Characteristics

- double layer
- cup-type design
- 3/4 length
- incl. 1 pair of supination wedge made of hard felt to support the juvenile splay foot
- sizes (GR): 23-35

PU = 1 pair

Version	Item-No.
cup-type design	105P50/GR
supination wedge	105P50/S

Please indicate size when ordering!



Metatarsal Pad, Cellular Rubber

drop-shaped pads

Material

- natural rubber
- approx. 50 Shore A
- cell-closed

PU = 50 pieces

Size	Length x Width x Height	Item-No.
1122/1	65 x 43 x 8 mm	191P1/1
1123/2	73 x 45 x 8 mm	191P1/2
1124/3	75 x 47 x 8 mm	191P1/3
1125/4	89 x 49 x 8mm	191P1/4



Metatarsal Pad, Cellular Rubber

heart-shaped pads

Material

- natural rubber
- approx. 50 Shore A
- cell-closed

PU = 50 pieces

Size	Length x Width x Height	Item-No.
1100/0	58 x 46 x 10 mm	191P2/0
1101/1	55 x 42 x 9 mm	191P2/1
1103/2	54 x 39 x 8 mm	191P2/2
1104/3	47 x 35 x 8 mm	191P2/3



Metatarsal Pad, Cellular Rubber

anatomically shaped

Material

- natural rubber
- approx. 50 Shore A
- cell-closed

Size	Length x Width x Height	Version	PU	Item-No.
811	79 x 58 x 10 mm	stomach-shaped pads	50 pcs	191P14
812	49 x 37 x 12 mm	left and right	25 pairs	191P10/1
813	56 x 42 x 8 mm	left and right	25 pairs	191P10/2



Longitudinal Arch Pad

Material

- natural rubber
- approx. 50 Shore A
- cell-closed

PU = 50 pieces

Size	Length x Width x Height	Item-No.
6	88 x 30 x 13 mm	191P30/6



Metatarsal Pad, Foam Rubber

drop-shaped pads

Material

- synthetic latex foam
- approx. 50 Shore 00

Characteristics

- air-permeable
- dynamic permanently resilient
- high restoring force
- well grindable and bondable

Size	Length x Width x Height	Item-No.
3445-1	48 x 35 x 7,4 mm	190P1/1
3445-2	52 x 38 x 7,9 mm	190P1/2
3445-3	56 x 40 x 9,5 mm	190P1/3
3445-4	60 x 43 x 9,7 mm	190P1/4
3445-5	62 x 45 x 10,2 mm	190P1/5



Metatarsal Pad, Foam Rubber

heart-shaped pads

Material

- synthetic foam with active carbon
- approx. 40-50 Shore 00

Characteristics

- antifungal and antibacterial effect
- steam permeable
- dimensionally stable and skin-friendly

PU = 50 pieces

Size	Length x Width x Height	Item-No.
2031-1	45 x 35 x 6 mm	191P5/1
2031-2	50 x 38 x 7 mm	191P5/2
2031-3	60 x 40 x 8 mm	191P5/3



Metatarsal Pad, Foam Rubber

drop-shaped pads

Material

- synthetic foam with active carbon
- approx. 40-50 Shore 00

Characteristics

- antifungal and antibacterial effect
- steam permeable
- dimensionally stable and skin-friendly

PU = 50 pieces

Size	Length x Width x Height	Item-No.
2057-1	45 x 35 x 6 mm	191P55/1
2057-2	50 x 38 x 7 mm	191P55/2
2057-3	60 x 40 x 8 mm	191P55/3



Metatarsal Pad, Foam Rubber

heart-shaped pads

Material

- synthetic foam with active carbon
- approx. 40-50 Shore 00

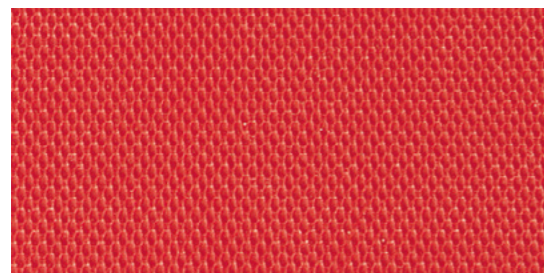
Characteristics

- antifungal and antibacterial effect
- steam permeable
- dimensionally stable and skin-friendly

PU = 50 pieces

Size	Length x Width x Height	Item-No.
2030-1	55 x 40 x 6 mm	191P56/1

Structured Rubber Sheet



Material

- technical rubber
- colour: red

Application

- shock protection and slip reduction for insoles

Characteristics

- with fabric base for better bonding
- extremely abrasion-proof
- durable

PU = 1 sheet

L x W x Thickness	Item-No.
1000 x 1000 x 1 mm	135P4/R



Fleece Lining Material

Material

- 55 % polyurethane and 45 % cotton
- marbled frontside, brushed backside

Application

- firm covering fabric for insoles

Characteristics

- very durable
- non-abrasive
- colourfast
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)

PU = running metre

Width x Thickness	Colour	Item-No.
approx. 1500 x 1 mm	brown	110P14/BR
approx. 1500 x 1 mm	blue	110P14/B
approx. 1500 x 1 mm	black	110P14/S



Lai Porellina, embossed

Material

- 51 % viscose and 49 % polyurethane
- imitation leather with embossed perforated look

Application

- covering fabric for insoles

Characteristics

- high light fastness
- high abrasion resistance
- colourfast
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)

PU = 50 metres per roll

Width	Colour	Item-No.
11 cm	beige	110P7/BG
11 cm	blue	110P7/B
11 cm	brown	110P7/BR
11 cm	green	110P7/GÜ
11 cm	peach	110P7/H
11 cm	orange	110P7/O
11 cm	red	110P7/R
11 cm	black	110P7/S



X-Static

Material

- 95 % PET and 5 % X-Static

Application

- covering fabric for insoles
- also suitable for diabetics

Characteristics

- antimicrobial
- anti-inflammatory
- fights odor-causing bacteria
- fungicidal
- high abrasion resistance
- approx. 187 g/m²



Width	Colour	Item-No.
11 cm	blue	110P34/B
11 cm	peach	110P34/BG
11 cm	black	110P34/S



Microfibre Velours

Material

- 92 % polyester and 8 % polyurethane

Application

- covering fabric for insoles
- alternative for alcantara

Characteristics

- tear-proof
- breathable
- colourfast
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)

PU = running metre

Width x Thickness	Colour	Item-No.
approx. 1380 x 0,6 mm	blue	110P113/B
approx. 1380 x 0,6 mm	grey	110P113/G
approx. 1380 x 0,6 mm	peach	110P113/H
approx. 1380 x 0,6 mm	black	110P113/S

Other colours are available upon request.



Heel Lining „Viledon“

Material

- 60 % polyester and 40 % polyurethane
- colour: light brown

Application

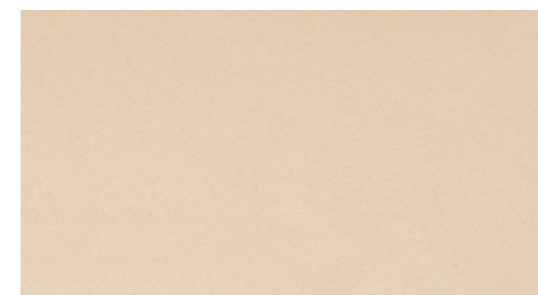
- covering fabric for insole bottoms

Characteristics

- loose
- tear-proof
- breathable
- colourfast
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)

PU = running metre (approx. 1,5 sqm linear metre)

Width x Thickness	Item-No.
approx. 1500 x 0,7 mm	110P15



ST-Microfibre

Material

- velours with polyester fibres treated with NBR latex
- weight: approx. 185-235 g/m²
- colour: beige

Application

- covering fabric for insoles
- alternative for alcantara

Characteristics

- tear-proof
- breathable
- colourfast
- bonds well with contact glues (e.g. Ortec special glue item-no. 118P18)

PU = running metre

Width x Thickness	Item-No.
1370 x 0,7 mm	110P20/BG



Cork sheet Orthoflex, fine

Material

- cork-compact sheets

Application

- for insoles and embeddings
- for height adjustments, shoe last modifications and volume adjustments of prosthetic sockets

Characteristics

- light-weight
- bendable
- well grindable
- bonds well with contact glues (e.g. LISTRA-top rapid glue item-no. 118P17)

PU = 1 piece (0,5 sqm)

L x W x Thickness	Item-No.
1000 x 500 x 2 mm	148P4/2
1000 x 500 x 3 mm	148P4/3
1000 x 500 x 4 mm	148P4/4
1000 x 500 x 5 mm	148P4/5
1000 x 500 x 6 mm	148P4/6
1000 x 500 x 8 mm	148P4/8
1000 x 500 x 10 mm	148P4/10



Multicork

Material

- EVA cork-scrap sheets

Application

- for insoles and embeddings
- for shoe last modifications

Characteristics

- light-weight
- thermoplastic (mouldable at approx. 130 °C)
- high density
- approx. 60 Shore A
- bonds well with contact glues (e.g. LISTRA-top rapid glue item-no. 118P17)

PU = 1 sheet

L x W x Thickness	Item-No.
1140 x 860 x 4 mm	148P5/4
1140 x 860 x 6 mm	148P5/6
1140 x 860 x 8 mm	148P5/8
1140 x 860 x 10 mm	148P5/10



THK-Reinforcing Material

Material

- reinforcement material
- colour: off-white

Application

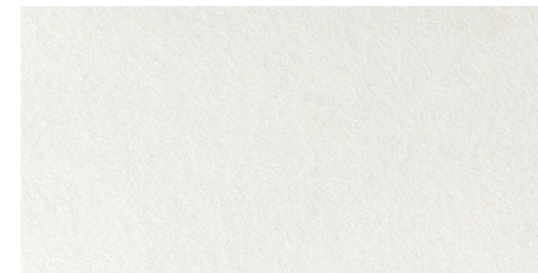
- reinforcement for insoles, toe- and heel caps, shoe uppers

Characteristics

- bonds with the base material by thermo-molding (90-140 °C)
- skin-friendly
- sweat-resistant

PU = 1 sheet

L x W x Thickness	Version	Item-No.
1400 x 1000 x 1,25 - 1,35 mm	adhesive on one side	111P43
1400 x 1000 x 1,25 - 1,35 mm	adhesive on both sides	111P32



Thermo-Flex Reinforcing Fabric

Material

- reinforcement material
- colour: white

Application

- reinforcement for insoles, toe- and heel caps, shoe uppers

Characteristics

- moldable at approx. 90-110 °C

PU = 1 sheet

L x W x Thickness	Item-No.
1400 x 1000 x 0,95 mm	111P12

Little ABC's of Orthopaedics

- A** **Abdomen** – area of the body between chest and pelvis
Abdominal – relating to the abdomen
Abduction – movement of a body part away from the midline of the body
Acetabulum – concave pelvic component of the hip joint receiving the femoral head
Adduction – movement of a body part towards the midline of the body
Alternating – exchanging, altering
Amelia – complete absence of one or several extremities
Anatomy – science of structure of organisms
Anesthesia – loss of feeling or sensation/narcosis
Anterior – front
Anteversion – forward tilt of a body part
Antivarus – against varus malalignment
Aponeurosis – a fibrous sheet of tissue by which certain muscles are attached to bones
Articulation, articulating – a joint, concerning a joint
Atrophy, to atrophy – shrinkage, wastage of biological tissue (e. g. muscle atrophy)
Axilla, axillary – the armpit, relating to the armpit
- B** **Bandage, to bandage** – wrapping, dressing; sense of: elastic support, applying bandages, taping
Biceps – two headed (e. g. biceps muscle)
Bow-leg – varus malalignment of the longitudinal axis of the leg
- C** **Calcaneus** – heel bone
Capsular – retaining to an articular capsule
Catalyser – chemical agent causing a chemical reaction (e. g. hardening powder, -paste)
Caudal – towards the tail, below, backside
Cerebrum, cerebral – the major part of the brain, occupying the upper part of the cranium, pertaining to the cerebrum
Cervical (cervical-region) – pertaining to the neck area
Chronic – long term (disease; opposite of acute)
Condyle, condylar – joint head, pertaining to the joint head
Congruence, congruent – match, matching, identical
Concave – hollow, curved inwards
Conservative – conciliatory, maintaining, in the sense of non-surgical
Constitution – physical shape
Contraction, to contract – tightening, shortening of soft tissue with joint malposition
Contralateral – reciprocal, located on the other side of the body
Contusion – bruise
Convex – curved to the front or outside

Little ABC's of Orthopaedics

- C** **Claw foot** – flexion contraction of the toes
 - Cranial** – head, above
 - Cyst** – abnormal, closed sac-like structure within a tissue that contains a liquid, gaseous, or semisolid substance (e. g. Baker's-cyst in the back of the knee)

- D** **Decubitus, decubital** – pressure damage, pressure sore
 - Derotation** – correctional rotation
 - Detorsion** – back rotation, correctional rotation (e. g. detorsion insole)
 - Dexter** – right
 - Diagnosis, to diagnose** – searching and finding a cause and details of disease
 - Digital** – pertaining to finger or toe
 - Digitus** – finger or toe
 - Dislocation, dislocate** – shift, to shift
 - Distal** – away, away from body
 - Distorsion** – sprained, twisted (e. g. joints)
 - Dorsal** – back side
 - Duroplast** – synthetic material, which is, once it has hardened, not mouldable anymore by heat

- E** **Endogenous** – caused by inner reasons
 - Et** – and
 - Exogenous** – caused by outer reasons
 - Extension** – stretching, extension of a body part
 - Extra** – beyond
 - Extremities** – limbs

- F** **Fascia** – covering around muscles and tendons
 - Femur** – bone that extends from the pelvis to the knee
 - Fixation, fixed** – position that cannot be altered passively
 - Flexion** – bending a joint (opposite of extension)
 - Fracture** – break in a bone
 - Frontal** – to the front (front surface)

- G** **Gibbus** – curve in the spine causing a bump or hump on the back, strong kyphotic spine deformation
 - Gluteus, gluteal** – buttocks muscle, pertaining to buttocks
 - Gocht manoeuvre** – special technique to mold the plaster-cast for the ischium bar
 - Gonarthrosis, gonitis** – inflammation of the knee joint

Little ABC's of Orthopaedics

- H** **Haematoma** – bruise
 - Hallux** – big toe
 - Hammer toe** – flexed contraction position of a toe in the middle or end joint during dorsal tilting of the metacarpophalangeal joint
 - Heidelberg angle** – AFO (ankle foot orthosis to lift the forefoot)
 - Hemi** – half
 - Heterogenous** – mixed combination, disparate
 - Hinge joint (Articulatio ginglymus)** – single-axle joint (e. g. finger joint)
 - Hyper lordosis** – lumbar lordosis, hollow back
 - Homogenous** – uniform, congeneric
 - Hyper** – prefix: more than the norm
 - Hypo** – prefix: less than the norm

- I** **Idiopathic** – spontaneous, independent, starting without known reason (e. g. idiopathic scoliosis)
 - Immobilization, to immobilize** – to prevent motion of a joint or segment
 - Incongruity, incongruent** – mismatch, mismatched
 - Incontinence** – inability to control urination or defecation
 - Indication, to indicate** – advice, necessity, to advise, make something necessary
 - Infra** – under or below
 - Initial** – beginning
 - Insert** – orthopaedic foot support, foot cushion for customized shoes
 - Instability, instable** – missing stability, loose
 - Insufficiency, insufficient** – functional weakness, inadequate
 - Interim treatment** – temporary, tentative treatment before the final treatment
 - Irreversible** – final, permanently
 - Ischium, ischial** – seat bone, pertaining to the seat bone
 - Ischium bar** – support point of the seat bone in prostheses or orthoses

- K** **KBM (abbreviation)** – Kondylen Bettung Münster
 - Knee cap** – molded knee brace made of textile rubberlike fabric
 - Kyphosis** – rather flat backward bent scoliosis

- L** **Lesion** – injury
 - Level Pelvis** – aligned pelvis
 - Lateral** – away from the center
 - Ligament, ligamentary** – band of fibrous tissue connecting bones, concerning the ligaments
 - Longuette** – oblong reinforcing material, usually several layers (e. g. plaster bandage)
 - Luxation, to luxate** – sprain, to sprain

Little ABC's of Orthopaedics

- M** Medial – inside, center, toward the mid-line
Metatarsal – long bones between the tarsal bones and the toes
Modular system – orthopaedic aid or prosthesis construction with various finished components (modular concept)
Morbus – disease, ailment
- N** Naviculare – short term for os naviculare = navicular bone of foot (or hand – scaphoid bone)
Necrosis – necrotic – dead tissue, mortified
Neuropathy, neuropathic – nervous disorder, nervous affection
- O** Oedema, oedematic – swelling, swollen
Orthosis – splint, brace device, corset, support
Orthopaedics – science of recognition and treatment of inherent or acquired defects of the musculoskeletal system (orthos = straight, right and paedia = childhood)
Orthoprosthesis – construction of a proximal orthotic element and a distal prosthetic element
Ossification, osseous – bone formation, bony
Osteomyelitis – infection of bone and bone marrow
Osteosynthesis – connection of two or more bones by means of metal plates, screws, nails or wires
- P** Pad – upholstering device in an orthosis or shoe
Palma, palmar – inner hand surface, pertaining to the inner hand surface
Palpation, to palpate – examination by touching with the hand
Paralysis, paralytic – loss of motor function, lame (only in the sense of limpness)
Paresis, paretic – loss of motor function (limp or spastic)
Patella – kneecap
Pathological – unnatural, abnormal, morbid
Pelvic obliquity – misaligned pelvis, asymmetrical pelvis height (e. g. caused by unequal leg length)
Periphery, peripheral – outer region, outside (e. g. peripheral arterial disease = PAD)
Peroneus, peroneal – retaining to the calf–bone (e. g. nervus peronaeus communis)
Peroneus–spring – ankle–foot orthosis to lift and guide the foot in case of limpness/loss of control
Pes – foot
Pes adductus – forefoot inverted, adducted, medially misaligned forefoot–position
Pes calcaneus – walking on the heel (steep slope position of the forefoot)
Pes cavus – contracted foot (excessive longitudinal arch of the foot)
Pes equinus – pointed foot (excessive plantar flexion of the whole foot)
Pes equinus varus adductus – club foot (combined malposition of the foot)
Pes planus – flat foot (collapsed medial arch)
Pes planus valgus – knock-flat foot (collapsed medial arch with kinked lower ankle joint)

Little ABC's of Orthopaedics

- P** Plantar – pertaining to the foot sole
Poliomyelitis – paralysis caused by the polio virus infecting the anterior horn cells of the spinal cord
Pollex – thumb
Poly – prefix: multi, several
Post – prefix: after, behind
Posterior – behind, toward the back of...
Postoperative post op – after surgery
Pre – prefix: before, prior to
Pressure lesion – surface damage of skin and tissue due to extensive pressure exposure
Prevention – precaution
Prognosis, prognostic – preview, expected
Progredience, progredient – progression (of disease), advancing
progressive – advancing
Prominence, prominent – protrusion, protruding
Pronation – rotation of hand or foot in long axis facing outwards or dorsally
Prophylaxis, prophylactic – prevention, preventive
Prosthesis – externally applied device used to replace wholly, or in part, an absent or deficient limb segment
Proximal – nearest to the trunk; towards the trunk
Pseudo arthrosis – non-union of a fractured bone
PTB – (abbreviation) – patella tendon bearing = patella tendon – load principle
PTS – (abbreviation) – PTB–supracondylar prosthesis = lower leg prosthesis, reaching over femurcondyles
- Q** Quadriceps – short for Musculus quadriceps = four headed muscle in the anterior thigh
Quengel Hinged Brace – joint bending or stretching brace with hinges
- R** Radius – spoke bone, one of the forearm bones
Recidivism, recidiving – relapse, recurrence (of a disease), relapsing
Reclination, to reclinate – backward tilt, to tilt backwards
Redression, to redress – to force or bend back
Rehabilitation, to rehabilitate – enabling persons with disabilities to reach and maintain their optimal sensory, intellectual, psychiatric and/or social functional levels
Retroversion – backward turn
Reversible – convertible
Rotation, to rotate – turn, turning

S **Sagittal** – following the arrow, straight direction
Saddle joint (articulatio sellaris) – double-axis joint (e. g. thumb saddle joint Carpometacarpal-I-joint)
Shore-hardness – measuring unit for the degree of hardness of elastic materials
Sinister – left
Scoliosis, scoliotic – lateral deviation of the spine and rotation of the vertebrae around the long axis of the spine
Spasticity, spastic – cramping, cramped
Spina, spinal – referring to the spine (vertebral column)
Spondyle – retaining to the spine (e. g. spondyle arthrosis = arthrosis of the vertebral joints)
Subductus – laying underneath (e. g. digitus subductus = toe, laying crossed underneath)
Subluxation – partial dislocation of a joint
Superductus – laying over (e. g. digitus sperductus = toe, laying over dorsally)
Supination – rotation of hand or foot around long axis with palm forward or foot inward
Supination wedge – medial or inner elevation of an orthopaedic insole
Supra – prefix: upper, above
Swiss cam lock / Swiss lock system – detention of a splint joint (e. g. of an orthotic brace)
Symphysis – pubic symphysis, midline cartilaginous pubic bone connection (synchondrosis)
Symptom, symptomatic – sign, Indication of a disease, indicating a disease
Syndesmosis – slightly movable articulation where the contiguous bony surfaces are united by an interosseous ligament
Syndrome – disease pattern
Synostosis – bony fusion between two bones

T **Talus** – bone that articulates with the tibia and fibula to form the ankle joint
Tarsus, tarsal – heel part of the foot, pertaining to the heel part of the foot
Thermoplast – plastic material re-shapeable under heat application
Three-point-correction principle – correctional therapy by leverage effect with surface pressure-application at three contact points
Thomas splint – a long leg relief splint that extends from a ring at the hip to beyond the foot, e. g. for aseptic hip joint necrosis
Tonus – tension condition of muscles
Torsion – twisting
Trochanter – muscle insertion point, bony protrusion lateral-proximally at the femur
Tuber – hunch, knob (e. g. tuber ischiadicum)
Tuberosity – bony protrusion, muscle insertion/fixation point

U **Ulna** – inner and longer of the two bones of the forearm



















V **Valgus** – X-shaped joint alignment
Varicosis – disease of the veins, varication
Varices – distended veins
Varus – O-shaped joint alignment
Ventral – relating to or situated on or close to the abdomen; abdominal, front
Vertex – centre of a curve, maximum of a curve
Volar – relating to the palm of the hand
V2A-steel – stainless steel

W **Walking** – milling, softening, staking e. g. orthopaedic leather




Source: "Children's orthopaedic techniques by R. Bernbeck, J. Pramschiefer, H. D. Stolle", published by Thieme, Stuttgart

Explanation of Symbols

Textile Care Symbols

	Hand wash
	30 °C delicates - reduce fill quantity one third
	30 °C normal wash
	40 °C normal wash
	60 °C normal wash
	95 °C normal wash
	Ironing with one dot - approx. 110 °C
	Ironing with two dots - approx. 150 °C
	Ironing with three dots - approx. 220 °C
	Do not iron
	Can be bleached
	Do not bleach
	No dry cleaning
	Low-temperature dry
	Normal dry
	Do not tumble dry
	Dryclean, petroleum solvent only
	Dryclean, any solvent except trichloroethylene

Danger Symbols

	Flame
	Flame over circle
	Skull and crossbones
	Corrosion
	Environment
	Exclamation mark
	Health hazard

1C1	138
1E2	147
2T22	289
2T23	289
2T24	288
2T25	288
2T26	289
4T7	291
5E1	149
5E2	149
6T5	290
8P14	245
8P16	246
8T15	164
8T16	164
9T2	294
10C2	131
10H2	211
10J1	250-251
11C2	131
11J1	250
12C2	133
12J1	250
12P18	217
12P20	218
12P22	158
12T4	290
13C2	132
13J1	251
14C3	133
14J1	250
20C2	134
22A100	116
22T23	291
22T40	292
22T76	293
22T77	293
22T78	293
22T8	292
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24P17	248
24P5	247
24P5A	247
24P7	245
24P8	248
24P9	247
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26T10	296
26T20	297
26T3	297
26T7	297
29T1	294
30P11	237
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36P2	233
36P3	233
36P5	232
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42P5	224
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44E19	162
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44P8	226
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45E23	163
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48P1	230
48P10	231
48P15	230
48P20	230
49T5	295
49T6	295
49T8	296
49T9/W	294
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50E1	167
50E15	167
50E16	167
50E17	166
50E18	169
50E19	167
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2WE 2023-01