

version
2024

BEIL

Orthopädie Kunststoffe
orthopedic plastics | since 1962

**EVERYTHING FOR LAMINATING
SEPARATING AND FOAMING
ACRYLYC SHEETS**



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BEIL brands and products are well known and proven in Germany and abroad. They are tailored to the needs and wants of customers in the orthopaedic workshop and offer maximum quality for many years. Developing customised materials as well as practise-oriented applications and processing techniques has always been BEIL's ambition and goal. A close, cooperative relationship with our sales partners and users in the workshop supports the constant optimisation and adaptation of our products. Our range of products is therefore subject to permanent change. We feel, today more than ever before, it is our obligation to support the customer also in using the products with the aim to achieve perfect results in the orthopaedic workshop. Of course, also when it concerns safety-related and technical matters of processing.

The search for alternative materials as well as environmentally friendly solutions are the topics I am engaged in as a managing director. Our products remain the basis in the orthopaedic technology and orthopaedic shoe technology and enable workshops and rehabilitation centres to supply people with life-changing medical aids. Particularly in times of global challenges and especially in areas affected by war, crisis or natural disaster, economically attractive aids produced with simple and proven methods are important. For that reason, our focus in the future is on the exchange of knowledge between producers, physicians and providers. In our opinion, sharing information and experiences is essential to tackle these challenges together and to develop innovative solutions.

For more than 60 years, BEIL produces plastics for the orthopaedic workshop. 17 professionals work with great skills and deep knowledge on development, advancement, procurement, production, distribution and shipment. A computerised production as well as highest quality and safety requirements ensure our high standards.

I am pleased to be able to present to you this year a new edition of our established catalogue with some adjustments to our product range. Together with my highly qualified team, I am available to answer any questions you may have!

**Sincerely yours,
Tom Mewes, managing director**



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MOULDING, SEPARATING AND FOAMING

MOULDING

COPYING PASTE

Copying paste is a flexible PUR material to make exact impressions of prosthetic sockets or negatives.
- high shape retention

ABFORMER Komponente A **ABFORMER Component A**

The Abformer (copying paste) component A is available in two container sizes.

Quantity

1,0 kg	43920
4,6 kg	43924



A:B=100:40 weight proportion



ABFORMER Komponente B **ABFORMER Component B**

Hardener component for Abformer (copying paste) component A.

Quantity

0,4 kg	43930
1,85 kg	43934



GIPS-ISOLIERCREME **PLASTER BARRIER CREAM**

Skin-friendly barrier cream when making plaster casts.

- no dropping
- no sticking

Quantity

1 kg	80150
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BAUMWOLL-TRIKOTSCHLAUCH COTTON STOCKINETTE

Skin compatible and soft and smooth protective sleeve for fabricating plaster casts.

- colour: nature
- available in different widths
- PU: 1 kg reel
- not suitable for laminating



Width	
4 cm	28004
6 cm	28006
8 cm	28008
10 cm	28010
12 cm	28012
15 cm	28015
20 cm	28020
25 cm	28025
30 cm	28030
35 cm	28035

SEPARATING

In addition to perfect shapes, the basic requirement for a successful work with polyurethane foam systems is the safe separation between shape and model and between shape and workpiece. Years of development work and close practical contact with the workshops guarantee the functionality of the materials. One hundred percent suitable for these working techniques.

TM 65/98 TM 65/98

Yellow, two-component separating agent based on silicone rubber with outstanding separation properties.

- forms a 0.15 to 0.30 mm thick silicone skin
- clean lasts without any residues
- plaster casts can be used several times
- for rinsing out also humid plaster casts
- > The best separating agent, also to seal humid plaster casts



Quantity	
1 kg	44061
5 kg	44065

 Curing (hardening) by adding 10-20% of curing agent V51

TM 69 TM 69

Single-component separating agent based on latex.

- forms a thin latex film as separating layer
- for rinsing out completely dry plaster casts
- drying by evaporation of solvents
- not dulitable

Quantity	
1 l	44101
2 l	44120
25 l	44144

 Please note our product information

**MO-70 MO-70**

Single-component wax separating agent

- forms a thin wax film as separating layer
- for rinsing out completely dry plaster casts
- drying by evaporation of solvents
- MO-70 is dulitable with Thinner TM

Quantity	
1 l	44201
5 l	44205

 Please note our product information

**VERNETZER V51 CURING AGENT V51**

Curing agent for TM 65/98.

- after adding 10-20 % of V51, the TM 65/98 is tack-free within 45 to 120 minutes
- 15 % gives a pot life of approx. 15 minutes
- prolonged processing time at low dosage
- the higher the dosage, the thinner the curing agent becomes

Quantity	
150 g	44091
750 g	44095

 Please note our product information

**VERDÜNNER TM THINNER TM**

Thinner for the silicone separating agent TM 65/98 as well as the wax separating agent MO-70

- use sparingly

Quantity	
1 l	44099



ACCESSORIES FOR SEPARATING

**TALKUM TALCUM**

Talcum is suitable as versatile lubricant and separating agent, for powdering models, for sticky surfaces and the like.

Quantity

1 kg	17001
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TEFLONSPRAY TEFLONE SPRAY

PTFE-based lubricant and separating agent free from grease.

- low friction coefficient
- can be used on all materials
- anti-adhesive against sticky materials
- applicable up to 260 °C

Quantity

200 ml	56201
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**SILIKONSPRAY SILICONE SPRAY**

Lubricant, gliding and separating agent containing silicone oil.

- can be used for all purposes
- protection against embrittlement, freezing and gluing of rubber parts
- has an anti-static effect

Quantity

400 ml	56150
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**OUR SAFETY DATA SHEETS**

<https://beil-peine.de/en/downloads/>



PUR LIQUID FOAM SYSTEMS

PUR RIGID FOAM

The polyurethane (PUR) liquide foam systems of BEIL are user-friendly and made of high quality. They are internationally known and accepted. Several product lines, each with different formulations, offer many possibilities required in the orthopaedic workshop. BEIL PUR foam systems guarantee a consistent and fine-pored quality at the highest level. A basis for optimum results.

The product lines ASTI© and ALPHA-PLAST provide the security that is needed when working with foams. In the orthopaedic workshop, BEIL rigid foams are mainly used for models, leg and foot lasts as well as short leg compensation.

ASTI-OP ASTI-OP

In orthopaedics, ASTI-OP is a synonyme for high-grade PUR rigid foams. BEIL provides the right product for every application to fabricate workpieces with bulk densities from 100 to 700 kg/m³. The use in practice of these products has been proven for decades. They were and are continuously further developed and offer an excellent price-performance-ratio.

With a density of 700kg/m³ and an expansion factor of 1.6, ASTI-OP 700 is the most stable and rigid foam in the ASTI-OP line. Particularly suitable to fabricate positive moulds and models subject to high mechanical load, for example lasts for shoes and insoles as well as tip additions.

ASTI-OP 500 is the most used formulation for orthopaedic shoe technology. With its expansion factor 2.2 and a densit of 500 kg/m³ it is the most used formulation of the PUR rigid foams. ASTI-OP 500 & 700 are very good nailable.

ASTI-OP 300 is a light rigid foam for thermoformage models, to fabricate cosmetic covers for prostheses and the like. With its expansion factor of 3.7 and a density of approx. 300 kg/m³ it is very lightweight and good grindable

With a density of 200 kg/m³ and an expansion factor of approx. 5.5, ASTI-OP 200 is a very light rigid foam.

ASTI-OP 100 is the lightest rigid foam of the ASTI-OP line. With its density of 100 kg/m³ and an expansion factor of approx. 11.7 it is excellently grindable.

ASTI-OP 100 & 200 have only limited mechanical strength.

ASTI-B is used as component B for all ASTI-OP formulations.

	Bulk density 100	200	300	500	700
Quantity					
0,865 kg	41608	41708	41908	41208	41808
4,6 kg	41604	41704	41904	41204	41804
9,32 kg				41209	41809
25 kg				41225	41825

For better pouring and dosing

For products in containers of 4.6 kg, 9.32 kg and 25 kg special closures are available. For these crimp-on spout caps see the chapter: adhesive tapes and further accessories



**ASTI-B ASTI-B**

Component B (hardener) for all ASTI-OP and ASTI-L rigid foams.

Quantity	
0,865 kg	41308
4,6 kg	41304
9,32 kg	41309
25 kg	41325

For better pouring and dosing

For products in containers of 4.6 kg, 9.32 kg and 25 kg special closures are available. For these crimp-on spout caps see the chapter: adhesive tapes and further accessories

ALPHA-PLAST ALPHA-PLAST

ALPHA-PLAST PUR foam is the consistent development of the former Degaplast PUR rigid foams. ALPHA-PLAST is fine-pored and provides a longer processing time due to a significantly delayed reaction. ALPHA-PLAST workpieces are characterised by very low shrinkage and high heat resistance.



ALPHA-PLAST H 700 is a high-strength rigid foam with a density of 700 kg/m³ and an expansion factor of approx. 1.6. It is ideal for orthopaedic shoe lasts.

ALPHA-PLAST H 300 is a light rigid foam with a density of 300 kg/m³ and an expansion factor of approx. 3.7.

ALPHA-PLAST H 200 is the lightest rigid foam in the ALPHA-PLAST line. It has a density of approx. 200 kg/m³ and an expansion factor of approx. 5.5. It is, among others, suitable for stump shell embeddings.

The ALPHA-PLAST component A is of pale pink colour, and the workpieces fabricated thereof also.

ALPHA-PLAST-B is used as component B for all ALPHA-PLAST formulations.

Bulk density	H 200 kg/m ³	H 300 kg/m ³	H 700 kg/m ³
Quantity			
0,865 kg	420086	430086	470086
4,6 kg	420460	430460	470460

ALPHA-PLAST B ALPHA-PLAST B

Component B (hardener) for all ALPHA-PLAST rigid foams.

Quantity	
0,865 kg	400086
4,6 kg	400460

**ASTI-V 170 ASTI-V 170**

PUR rigid foam, especially formulated for the fabrication of short leg compensation

- expansion factor: approx. 6.5
- density: approx. 170 kg/m³
- reduced brittleness

Quantity	A
910 g	41003

**ASTI-V 170 B ASTI-V 170 B**

Component B (hardener) for ASTI-V 170.

Quantity	
1090 g	41004

 Please note our product information

**OUR SAFETY DATA SHEETS**

<https://beil-peine.de/en/downloads/>

PUR FLEXIBLE FOAM

The PUR flexible foam systems ASTI-TECH and ASTI-S 60 are used for the fabrication of custom-made insoles, forefoot and toe joint replacement as well as for seating shells, orthopaedic seat cushions and other paddings.

All foams have an open-cell structure and are offered with different characteristics and appropriate additives to fabricate custom-made fittings.

ASTI-TECH ASTI-TECH

PUR soft foam has very good resilience characteristics. Special formulations are possible and can be found in the Product Information.

ASTI-TECH 500 is a heavy flexible foam with a density of 500 kg/m³ and an expansion factor of approx. 2.0. It is suitable to fabricate custom-made shoe beddings and individual paddings.

ASTI-Tech 300 is a medium-heavy flexible foam with a density of 300 kg/m³ and an expansion factor approx. of 3.3. It is suitable to fabricate forefoot replacement, soft foam inserts, custom-made shoe beddings and individual paddings.

ASTI-Tech 150 is a light flexible foam with a density of 150 kg/m³ and an expansion factor of approx. 5.4. It is very suitable to fabricate forefoot replacement, soft foam inserts as well as seating shells and individual paddings.

ASTI-Tech 100 is the lightest flexible foam of the ASTI-TECH line. With a density of 100 kg/m³ and an expansion factor of approx. 11.1 it is suitable to fabricate soft paddings and seating shells.

ASTI-TECH-B is used as component B (hardener) for all ASTI-TECH formulations.

Bulk density	100 kg/m ³	150 kg/m ³	300 kg/m ³	500 kg/m ³
Quantity				
0,865 kg	43007	43009	43008	43108
2,5 kg	43412	43415	43430	43450

ASTI-TECH F ASTI-TECH F

ASTI-TECH F is a variant of ASTI-TECH, but has a noticeably firmer cell structure. This opens up new fields of application.

ASTI-TECH 500 F is a heavy flexible foam with a density of 500 kg/m³ and an expansion factor of approx. 2.0.

ASTI-Tech 300 F is a medium-heavy flexible foam with a density of 300 kg/m³ and an expansion factor of approx. 3.3.

Due to its strong cell structure, ASTI-TECH 500 F & 300 F are perfectly suitable to fabricate custom-made shoe beddings and individual paddings, if you need it a bit more rigid.

ASTI-Tech 150 F is the lightest flexible foam with a density of 185kg /m³ and an expansion factor of approx. 5.4.

For forefoot replacement, soft foam inserts, custom-made shoe beddings and individual paddings, if you need it a bit more rigid.

ASTI-TECH-B is used as component B for all ASTI-TECH formulations.

Bulk density	150	300	500
Quantity			
0,865 kg	43310	43320	43109
2,5 kg	43315	43325	43335



OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>



ASTI-TECH B ASTI-TECH B

Component B (hardener) for all ASTI-TECH flexible foams.

Quantity	
0,433 kg	43202
0,865 kg	43208
2,5 kg	43490

i This product is sensitive to cold. Please note available technical information.

VORFUßERSATZ FOREFOOT REPLACEMENT

Foamed forefoot replacement with toes made of ASTI-TECH

- left and right side available
- each in three sizes



Size	Side	left	right
small		87210	87200
medium		87211	87201
large		87212	87202

OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>

ASTI-S 60 Komponente A ASTI-S 60 Component A

Flexible foam to fabricate major customised seating shells, paddings, arm supports and such...

Quantity	A
4,6 kg	41116



ASTI-S 60 Komponente-B ASTI-S 60 Component B

Component B (hardener) for ASTI-S 60 flexible foam

Quantity	
2,7 kg	41127



For better pouring and dosing

For products in containers of 2,5 kg and 4.6 kg special closures are available.

For these crimp-on spout caps see the chapter: colours, fillers, solvents, sprays & accessories.

UNIVERSAL-FARBZUSÄTZE UNIVERSAL COLOUR ADDITIVES

Paste-like colour concentrate, suitable for resins and PUR foams.

Check for compatibility prior to first use.

- colour pastes can be mixed among each other
- use very sparingly

Colour	Quantity	200 g	250 g
skin			7033
white		7012	
blue		7104	
firerd		7107	
black		7110	
yellow		7112	

i "inappropriate" colour additives can lead to curing issues and may change the characteristics of the final product.



FILLING AND MOULDING

FILLING AND MOULDING

BKF fillers and moulding compounds have been optimised for the use in orthopaedics. The selection of the right products and the compliance of the processing specifications are important to achieve good working results. Further helpful remarks and tips can be supplied upon request.



FILLERS


POLYESTER FILLER

BKF SPACHTEL C-PLUS BKF PUTTY C-PLUS

- Heavy, partially flexible polyester putty.
- can be used for corrections to lasts made of PUR / wood / moulding compounds
- uniform and fine filler structure
- very good grindable, smooth grinding removal like on PUR / wood / moulding compound
- good nailable, even on the edges

Quantity

1 kg	36901
2,5 kg	36925
5 kg	36905

 Hardening by 3-4 % hardening paste




BKF SPACHTEL SL-PLUS BKF PUTTY SL-PLUS

- Very light, semi-elastic polyester putty.
- primarily used for cosmetic applications
- easy to mould
- very good grindable

Quantity

1 l	36921
2,5 l	36922
5 l	36929

 Hardening by 3-4 % hardening paste




BKF FASERSPACHTEL NV BKF FIBER FILLER NV

- Light, glass-fibre reinforced polyester filler.
- styrene-reduced
 - to fill major cracks and gaps
 - good mechanical properties

**Quantity**

0,4 kg	36704
0,8 kg	36708
2,0 kg	36720


 Hardening by 3-4 % hardening paste

ACRYLIC FILLER**BKF SPACHTEL AL BKF PUTTY AL**

- Very light acrylic putty
- can be used, for example, for narrowing of sockets
 - easy to mould and grindable
 - adheres very well to acrylic resin parts

**Quantity**

2,5 l	36225
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 Hardening by 3-4 % hardening paste

BKF SIEGELHARZPASTE BKF SEALING RESIN PUTTY

- Gelled sealing resin based on acrylic.
- glassy
 - to seal leather
 - to adhere and simultaneously fill to wood and PUR rigid foam

**Quantity**

0,75 kg	82407
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 Hardening by 1-3 % hardening paste

MOULDING COMPOUNDS**POLYESTER MOULDING COMPOUND****BKF GIESSMASSE N BKF MOULDING COMPOUND N**

Polyester moulding compound with reduced brittleness and low shrinkage. High heat deflection temperature and outstanding processing properties are ideal for shoe lasts, tip additions, casting of step-in foams and much more.

Quantity

2 kg	36322
4 kg	36324
8 kg	36328

 Hardening by 2-3 % hardening paste

**HÄRTERPASTE ROT HARDENING PASTE RED**

- Hardening paste red consists of 50% benzoyl peroxide.
- For curing fillers and moulding compounds based on polyester and acrylic
 - follow the filler container's instruction for dosage
 - hardening paste red changes the color of the coating, so that the mixing can be checked easily

Quantity

50 g	4100
200 g	4200

**OUR SAFETY DATA SHEETS**

<https://beil-peine.de/en/downloads/>

PUR MOULDING COMPOUND


BKF PUR-QUICK Komponente A BKF PUR-QUICK

Component A

- Moulding compound based on polyurethane (PUR).
- to fabricate insole forms, castings of step-in foams
 - for shoe lasts and tip additions
 - good adhesion to wood and PUR rigid foams
 - fillable with BKF filler, see chapter Colours, Fillers, Solvents...
 - low shrinkage
 - very good mechanically workable, even on the edges

Quantity

0,865 kg	36839
4,6 kg	36834

 A:B=100:100 weight proportion + poss. BKF filler

 Please note our product information




BKF PUR-QUICK Komponente B BKF PUR-QUICK

Component B

Hardener component for BKF PUR-Quick

Quantity

0,865 kg	36849
4,6 kg	36844

 A:B=100:100 weight proportion + poss. BKF filler

FILLERS FOR MOULDING COMPOUNDS

BKF FÜLLSTOFF BKF FILLER

Additive based on aluminium hydroxide for the filling of PUR systems.

- particularly suitable for BKF PUR-Quick
- application see PUR-Quick Product Information

Quantity

5 kg	36835
10 kg	36830



MICROBALLON MICROBALLOON

Very lightweight filler without reinforcing effect.

- hardly any segregation
- improved grindability

Quantity

500 g	37100
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LAMINATING

LAMINATING RESINS AND HARDENER

Laminating resins are part of many orthopaedic workshops' basic equipment. BKF resins provide the basis for first-class fittings. The use in practice has been proven over many years.

This includes acrylic, polyester and epoxy resins but also the versatile BKF EpoxCarbon.

For further helpful remarks and tips read our Product Information. Our Technical Service is happy to support you.

BKF ACRYLHARZ BKF ACRYLIC RESIN

BKF acrylic resins, the standard from BEIL, are easy to work up and always harden reliably. With the use of appropriate reinforcing material, the laminates can be thermoformed subsequently.

BKF acrylic resins can be mixed among each other.

BKF LAMINATING RESIN 80:20, the tried-and-tested classic for laminating. Well-balanced in viscosity and strength for most applications. Thermoplastically formable subsequently.

BKF CARBON RESIN is thinner and especially formulated for the processing of carbon fabrics that is for high-quality casting resin parts that require uppermost strength and are mainly made of carbon fibres. BKF carbon resin has a very good adhesion to carbon fibres.

BKF SIEGEL (seal) is used for the adhering of acrylic, wooden and PUR rigid foam parts, for sealing leather as well as for laminating very strong parts. It's a rigid and brittle acrylic resin with short curing time.

BKF PLASTISCH (plastic) is an acrylic laminating resin to fabricate flexible parts. It can be mixed with all other BKF acrylic resins.

Hardening of the acrylic resins with 1-3% hardening powder 50.

Type	BKF Carbon-harz	BKF Laminier-harz 80:20	BKF Plastisch	BKF Siegel
Quantity				
0,9 kg	2509	2009	2309	2109
4,6 kg	2546	2046	2346	2146
25 kg	2525	2025	2325	2125



OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>

DEGAPLAST ACRYLHARZ DEGAPLAST ACRYLIC RESIN

Degaplast are proven acrylic resins and well suited to fabricate laminates in orthopaedic workshops. With the use of appropriate reinforcing materials, the laminates can be thermoformed subsequently. Degaplast acrylic resins can be mixed among each other.

DEGAPLAST LH 80:20 is the classic resin for rigid laminates. Balanced in viscosity and strenght for most applications.

DEGAPLAST LH C (carbon) - The improved flowability allows a better impregnation and less air pockets in rigid laminates. The good adhesion of the resin to carbon fibres enables the fabrication of high-quality laminates.

DEGAPLAST SH is a rigid and brittle resin for adhering, sealing and reinforcing with fast curing time.

DEGAPLAST GH 103 P is a plastic acrylic laminating resin with very good flexible properties.

Hardening of the acrylic resins by 1-3% hardening powder 50.

Version	GH 103 P	LH 80:20	LH C	SH
Quantity				
0,9 kg	2119	2019	2319	2519
4,6 kg	2114	2014	2314	2514
25 kg	2115	2015	2315	2515



BFK POLYESTER RESINS

Styrene-containing polyester laminating resins for various applications such as sole stiffeners. They are easy to work up and harden quickly.

- good heat deflection temperature
- laminates are subsequently not thermoplastically formable
- also suitable for mould making, hobby and shipbuilding

Hardening of the polyester resins with 1-3% hardening powder 50.



BKF POLYFEST HQ BFK POLYFEST HQ

Rigid, pre-accelerated polyester laminating resin with fast curing time.

Quantity	
1 kg	1510
5 kg	1515

Hardening by approx. 3 % hardening powder 50

VERDÜNNER P THINNER P

Thinner based on styrene,exclusively to dilute polyester resins and fillers.
- use sparingly, max. 10%

1 l	82103
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EPOXY RESINS AND HARDENER

High-grade laminating resins to fabricate lightweight but strong devices.

- no delaminating
- not or only limited thermoplastically formable
- good heat deflection temperature
- excellent adhesion to glass, carbon and Kevlar fibres
- almost no shrinkage

BKF EPOXCARBON BFK EPOXCARBON

Rigid epoxy resin of high quality. Particularly suitable for the processing of carbon fibres. Contains styrene.

- no delaminating
- only limited thermoplastically formable
- fast curing time
- high resistance under dynamic loads

Hardening of EpoxCarbon with 1-3 % hardening powder 50.

Quantity	
0,9 kg	1619
4,6 kg	1614
25 kg	1615

Hardening by 1-3 % hardening powder 50

Please note our product information



ARALDIT OP ARALDIT OP

Rigid epoxy laminating resin without solvent, slow cure process

- can be mixed with Araldit CY221
- slow cure process, almost no shrinkage

Hardening of Araldit with exactly 20 % Hy 956, other dosages lead to curing issues.

Quantity	
1 kg	9001
5 kg	9005
25 kg	9025

Hardening by 20 % HY 956 / 5-hour hardener



ARALDIT CY 221 ARALDIT CY 221

- Elastic epoxy laminating resin
- can be mixed with Araldit OP
- slow cure process, almost no shrinkage



Hardening of Araldit with exactly 20 % Hy 956, other dosages lead to curing issues.

Quantity

1 kg	9101
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Hardening by 20 % HY 956 / 5-hour hardener

**HY 956 / 5-Std-Härter HY 956 / 5-hours hardener**

Hardener for Araldit OP and Araldit CY221.

Quantity

0,2 kg	13200
1 kg	13001
5 kg	13005

**HARDENING POWDER and accessories**

Hardening powder 50 is used for curing polyester and acrylic resins as well as BKF EpoxCarbon. The right accessory makes the handling of the powder much more easy. Curing times are influenced by amount of hardener.

**HÄRTERPULVER 50 HARDENING POWDER 50**

- 50% based on benzoyl peroxide
- for curing polyester and acrylic resins as well as BKF© EpoxCarbon
- follow the resin container's instruction for dosage
- not suitable for fillers and moulding compounds

Weight

150 g	6015
500 g	6050

i Phthalate free on request.

**HÄRTERPULVER Zubehör HARDENING POWDER accessory**

The right accessory for the optimum storage and dosage of hardening powder.

Content / dimensions

Leergebinde 250 ml	811127
Leergebinde 800 ml	811130
Maßlöffel 2 g	73002

**UNIVERSAL-FARBZUSÄTZE UNIVERSAL COLOUR ADDITIVES**

Paste-like colour concentrate, suitable for resins and PUR foams.

Check for compatibility prior to first use.

- colour pastes can be mixed among each other
- use very sparingly

Colour	Quantity	200 g	250 g
skin			7033
white		7012	
blue		7104	
firered		7107	
black		7110	
yellow		7112	



i "inappropriate" colour additives can lead to curing issues and may change the characteristics of the final product.

AEROSIL AEROSIL

Thixotroping agent to reduce the flowability of resins.

Quantity

500 g	37500
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i Add only as much until the thickened resin does not run anymore from vertical surfaces.

**FARBSPRAY HAUTFARBE SKIN COLOUR SPRAY**

High-grade skin-coloured acrylic varnish.

- fast-drying high-quality varnish
- possible to apply several thin layers of varnish

Quantity

400 ml	56001
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PLASTIKSPRAY PLASTIC SPRAY

High-grade, transparent acrylic resin varnish.

- for insulation, proofing, sealing and protection against corrosion
- resistant to alcohols, moisture, alkalis and acids
- fast-drying high-quality varnish

Quantity

400 ml	56000
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REINFORCING MATERIALS

BEIL offers a wide range of appropriate reinforcing materials for the different resin systems in the lamination technique. All products were especially selected to meet all requirements of the orthopaedic technology and orthopaedic shoe technology. Its use in practice has proved its worth.

Please note available Product and Processing Information.



FABRICS AND MATS

Reinforcing materials for extensive laminates. Selection between carbon, glass and Kevlar available as fabric or mat in various weights.

CARBON FABRIC

Carbon fabric is used for the fabrication of thin-walled acrylic or epoxy resin laminates that require high strength and stiffness. The type of weave affects the formability of the mats. The Overspray prevents fraying of the mats when cutting.

CARBONGEWEBE, Leinwand CARBON FABRIC, plain weave

Carbon fabric 200 g/m² in plain weave. For use in thin-walled laminates made of acrylic or epoxy resin where high strength is required.

- for rather surface applications

- width: 1 m

Quantity

1 m ²	86005-1
5 m ²	86005-5



CARBONGEWEBE, Körperbindung CARBON FABRIC, twill weave

Carbon fabric 200 g/m² in twill weave. For use in thin-walled laminates made of acrylic or epoxy resin where high strength and stiffness is required.

- overspray prevents fraying of the carbon mats when cutting.
- twill weave allows a better 3D plasticity
- width: 1 m

Quantity	Overspray	no	yes
1 m ²		86008-1	86010-1
5 m ²		86008-5	86010-5
50 m ²		86008-50	86010-50



GLASS FABRIC

For rigid laminates made of polyester, acrylic or epoxy resin.

GLASGEWEBE, Leinwandbindung GLASS FABRIC, plain weave

Glass fabric in plain weave used as basis in the laminate or as intermediate layer when working with carbon mats.

- width: 1 m

Quantity	Weight	200 g/m ²	345 g/m ²	395 g/m ²
1 m ²		40043-1	40045-1	40046-1
5 m ²		40043-5	40045-5	40046-5



GLASSEIDENKOMBIMATTE GLASS FIBRE COMPOSITE MAT

Combination of a heavy fabric with a fleece of 1050 g/m². For sole stiffeners and other thick-walled and rigid laminates.

- width: 1.25 m

Quantity

1 m ²	40200-1
------------------	---------



ideal for hand-laminating process

BIGELOWMATTE BIGELOW MAT

Glass fibre snippets mat of 225 g/m². For rigid laminates made of polyester resin.

- spherical forms can easily be formed.

- width: 1.25 m

Quantity

1 m ²	40455-1
------------------	---------

i Ideal for hand lamination!



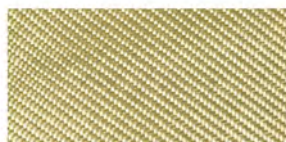
KEVLARGEWEBE, Körperbindung KEVLAR FABRIC, twill weave

Kevlar fabric 170 g/m² for laminating with acrylic and epoxy resin.

- very tough, very high tensile strength
- storage dry and protected from UV radiation
- we recommend Kevlar shears for cutting
- very hygroscopic, dry before processing
- width: 1 m

Quantity

1 m ²	40222-1
5 m ²	40222-5



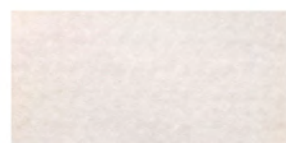
DACRONFILZ DACRON FELT

Build-up material in the laminate, not for reinforcement. To increase the strength of the material at the edges and for very smooth surfaces.

- the laminate can be ground easily
- colour: white
- thickness: 2-3 mm

Quantity

1 m ²	34202-1
50 m ²	34202-50



REINFORCING TAPES

Reinforcing tapes for strengthening the laminate. Selection between carbon, glass and Kevlar in various weights, widths and types of weave.

CARBONFASERFLECHTBAND BRAIDED CARBON FIBRE TAPE

For local reinforcement in the laminate.

- width: 40 mm
- fibre orientation 45°

Length

10 m	35840-10
50 m	35840-50



CARBONGEWEBEBAND, Leinwandbindung CARBON FABRIC TAPE, plain weave

For local reinforcements in high-strength and stiff laminates.

- weight: 195 g/m²

Length Width 050 mm 100 mm

10 m	35530-10	35535-10
50 m	35530-50	35535-50



CARBONBAND, unidirektional CARBON FIBRE TAPE, unidirectional

For local reinforcements in high-strength and stiff laminates in fibre longitudinal direction. Suitable for sole stiffeners and much more

- weight: 172 g/m²

Width Length 10 m 50 m

20 mm	35720-10	
25 mm	35725-10	35725-50
30 mm	35730-10	35730-50
40 mm	35740-10	35740-50
50 mm	35750-10	35750-50
60 mm	35760-10	35760-50
80 mm	35780-10	35780-50
100 mm	35700-10	35700-50



CARBONGEWEBEBAND, unidirektional CARBON FABRIC TAPE, unidirectional

For local reinforcements in high-strength and stiff laminates in fibre longitudinal direction. Suitable for sole stiffeners and much more.

- weight: 375 g/m²

Length Width 050 mm 100 mm

10 m	35539-10	35540-10
50 m	35539-50	35540-50



GLASBAND, unidirektional GLASS TAPE, unidirectional

Heavy glass tape for sole stiffeners and local reinforcement in laminates in different width

- weight: 600 g/m²
- length: 50 m



Width

30 mm	35131
40 mm	35141
50 mm	35151
60 mm	35161
70 mm	35171

GLASGEWEBEBAND, Leinwandbindung GLASS FABRIC TAPE, plain weave

For local reinforcement in the laminate.

- weight: 225 g/m²



Length	Width	40 mm	80 mm
10 m		35303-10	35304-10
50 m		35303-50	35304-50

KEVLARGEWEBEBAND, Leinwandbindung KEVLAR FABRIC TAPE, plain weave

Fabric tape made of Kevlar as reinforcement in the laminate, for example, for edge reinforcement if eyelets shall be applied in the laminate afterwards.

- weight: 210 g/m²
- storage dry and protected from UV radiation
- we recommend Kevlar shears for cutting
- very hygroscopic, dry before processing
- width: 75 mm



Length

10 m	35215-10
50 m	35215-50

BRAIDED STOCKINETTES

Braided stockinettes made of carbon or glass fibres for a wide range of applications in the lamination technique. Can be pulled over different circumferences without creases due to stretching and compressing.

CARBON-UD-SCHLAUCH CARBON FIBRE UD STOCKINETTE

If components are exposed to flexural loadings, the carbon fibre UD stockinette provides maximum stiffness. The circular-knitted UD stockinettes have an elastic weft, thus the carbon thread maintains its 0° orientation independent of the diameter.



Width	Length	10 m	5 m
20 mm		33220-10	
40 mm		33240-10	
70 mm		33270-10	
100 mm		33210-10	
150 mm			33215-5

CARBON-FLECHTSCHLAUCH BRAIDED CARBON FIBRE STOCKINETTE

As reinforcement in extremely stable and stiff laminates made of acrylic or epoxy resin where maximum stiffness is needed. Due to stretching and clinching different circumferences can be covered. This changes the fibre angle. Width dimensions in mm „stretched“ / „clinched“

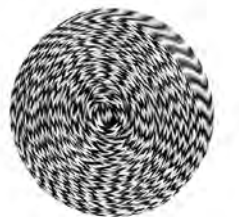
Width	Length	10 m	50 m
15/50 mm		33020-10	33020-50
50/250 mm		33040-10	33040-50
70/280 mm		33060-10	33060-50
80/320 mm		33070-10	33070-50
100/390 mm		33080-10	



CARBON-GLAS-FLECHTSCHLAUCH BRAIDED CARBON-FIBRE GLASS STOCKINETTE

As additional reinforcement for rigid and stiff laminates made of acrylic or epoxy resin.

Width	Length	10m
50/230 mm		33140-10
60/340 mm		33160-10



FERTIGARMIERUNG REINFORCING CARBON / KEVLAR BRAID

Prefabricated combination of several high-strength reinforcing materials. Very high stiffness and stability in the laminate is provided by an inner honeycomb core, a carbon / Kevlar tape and a final layer of braided carbon fibre stockinette.

- application, for example, for fabricating orthoses
- length: 1.2 m

Width	
15 mm	87100
20 mm	87110



SPRÜHKLEBER SPRAY ADHESIVE

BEIL spray adhesive is the best product for gluing large areas.

- glues plenty of materials
- if used sparingly in the laminate, the curing of the resin won't be influenced, thus:
 - particularly suitable for fastening reinforcing materials in the laminate

Quantity	
400 ml	56305

 Use sparingly!



KNITTED FABRICS

Stockinettes of high quality with diverse basic materials and characteristics are the key for successful laminating.

PERLON-TRIKOTSCHLAUCH PERLON STOCKINETTE

Reinforcing material for elastic and flexible laminates.

- elastic
- ladder-proof
- white
- 1 kg reel



Width	
4 cm	28104
6 cm	28106
8 cm	28108
10 cm	28110
12 cm	28112
15 cm	28115
20 cm	28120
25 cm	28125
30 cm	28130

HELANCA-TRIKOTSCHLAUCH HELANCA STOCKINETTE

Reinforcing material for elastic and flexible laminates.

- very elastic
- not ladder-proof
- white
- 1 kg reel



Width	
8 cm	28208
10 cm	28210
12 cm	28212
15 cm	28215
20 cm	28220

HELANCA-GITTERSCHLAUCH HELANCA GRID STOCKINETTE

Used as outer layers (finish) for all laminates it creates a smooth surface.

- very elastic
- ladder-proof
- white
- 1 kg reel



Width	
6 cm	29000
8 cm	29001
12 cm	29002
15 cm	29003

GLAS-GITTERSCHLAUCH GLASS GRID STOCKINETTE

Reinforcing material for rigid laminates.

- combination of glass and nylon threads
- ladder-proof
- 1 kg reel

Width	
8 cm	34000
10 cm	34001
13 cm	34002
16 cm	34003
22 cm	34004



BUFA-GLASSCHLAUCH BUFA GLASS STOCKINETTE

As additional reinforcement for rigid laminates.

- ladder-proof
- for high stiffness and stability
- coarse texture
- 1 kg reel

Width	
10 cm	34101
12 cm	34102
15 cm	34103
20 cm	34200
25 cm	34105



KEVLARSCHLAUCH KEVLAR STOCKINETTE

As reinforcement in rigid or elastic laminates with special loads. Made of acrylic or epoxy resin.

- high stability, light and tough
- very high impact and tensile strength
- storage dry and protected from UV radiation
- we recommend Kevlar shears for cutting
- very hygroscopic, dry before processing
- 1 kg reel

Width	
10 cm	32010
12 cm	32012



BAUMWOLL-TRIKOTSCHLAUCH COTTON STOCKINETTE

- Skin compatible and soft and smooth protective sleeve for plaster casts.
- colour: raw white
- available in different widths
- 1 kg reel



i not suitable for laminating

Width	
4 cm	28006
6 cm	28008
8 cm	28010
10 cm	28012
12 cm	28015
15 cm	28020
20 cm	28025
25 cm	28030
30 cm	28035



LAMINIERSCHLAUCH LAMINATING SLEEVE

- Extra thin laminating sleeve made of Nylon
- length: approx. 37 m
- width: 6 cm
- very elastic

color	
white	28310
black	28311



TIEFZIEHSCHLAUCH WEISS THERMOFORMING TUBE WHITE

- Thermoforming tubes with closed aperture
- length: 50 cm.

Quantity	
10 pcs	34310
100 pcs	34311

SEPARATING FILMS

Thin films serve as ideal separation between mould and component. In the orthopaedic workshop, PVA film sleeves are applied primarily for laminating. As an alternative, shrinking film can be used if not worked under vacuum.

PVA FOLIE PVA FILM

- PVA separating film for lamination technique as reel material for fabricating individual separating film.
- thicknesses: 0.08 mm or 0.1 mm
- width: 77 cm, 100 cm and 130 cm
- reel length: 30 m

Thickness	Width	100 cm	130 cm	77 cm
0,08 mm		22620-30	22630-30	22610-30
0,1 mm		22720-30	22730-30	

i Please note our product information



PVA FILM SLEEVES

Right from the beginning, BEIL is THE manufacturer of PVA film sleeves. The quality is monitored and assured with strict requirements.

When lightly moistened, PVA film is very elastic.

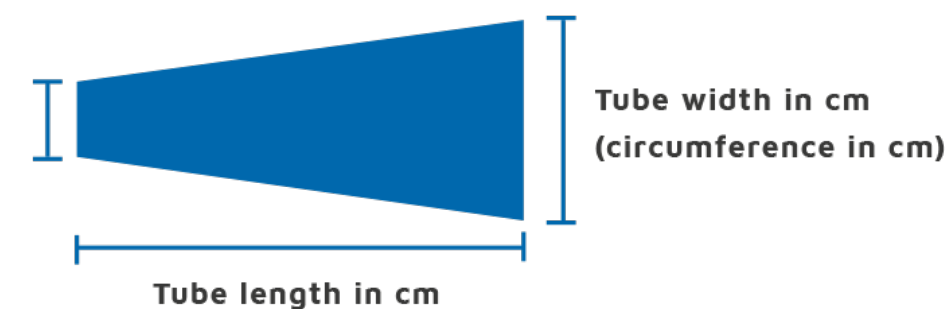
PVA film sleeves have a conical form and are available in several lengths, widths and two different thicknesses.

The required length and width results directly from the model form, the thickness of the material is chosen with regard to the intended use of the film sleeves.

Special dimensions are available on request.

Film thickness 0,08 or 0,10 mm

The narrow side has always a width of 5 cm (circumference 10 cm)



Dimensioning PVA film sleeve:

Note: Usually, the thicker film sleeves find use in the orthopaedic shoe technology.

PVA FOLIENSCHLAUCH, Dicke 0,08 mm 10er Pack
PVA FILM SLEEVE, thickness 0.08 mm pack of 10

The PVA film sleeve with a thickness of 0.08 mm is the standard and suitable for almost all applications in the lamination technique.

- width (circumference) in cm
- length: 77 cm, 100 cm and 130 cm



Width	Length	100 cm	130 cm	77 cm
8 (15) cm		39015		39215
10 (20) cm		39020		39220
13 (25) cm		39025		39225
15 (30) cm		39030	39630	39230
18 (35) cm		39035	39635	39235
20 (40) cm		39040	39640	39240
23 (45) cm		39045	39645	39245
25 (50) cm		39050	39650	39250
28 (55) cm		39055	39655	39255
30 (60) cm		39060	39660	39260
33 (65) cm		39065	39665	39265
35 (70) cm		39070	39670	

 Please note our product information

PVA FOLIENSCHLAUCH, Dicke 0,10 mm 10er Pack
PVA FILM SLEEVE, thickness 0.10 mm pack of 10

The PVA film sleeve with a thickness of 0.10 mm is extremely durable and tearproof.

Specially used in the orthopaedic shoe technique.

- width (circumference) in cm
- length: 100 cm and 130 cm



Width	Length	100 cm	130 cm
8 (15) cm		39115	
10 (20) cm		39120	
13 (25) cm		39125	
15 (30) cm		39130	39730
18 (35) cm		39135	39735
20 (40) cm		39140	39740
23 (45) cm		39145	39745
25 (50) cm		39150	39750
28 (55) cm		39155	39755
30 (60) cm		39160	39760
33 (65) cm		39165	39765
35 (70) cm		39170	39770
40 (80) cm		39180	
45 (90) cm		39190	
50 (100) cm		39200	
55 (110) cm		39210	
60 (120) cm		39211	

PVA FOLIENSCHLAUCH, Dicke 0,10 mm 1 Stück PVA
FILM SLEEVE, thickness 0.10 mm 1 piece

Manually welded PVA film sleeve for larger sizes. Special dimensions available on request.

- width (circumference) in cm
- length: 100 cm and 130 cm



Width	Length	100	130
65 (130) cm		39330	
70 (140) cm		39340	
40 (80) cm			39480

SCHRUMPF-FOLIENSCHLAUCH SHRINKING FILM SLEEVE

Seamless, transparent shrinking film sleeve for insulating humid plaster casts.

- can be used as separating film for all laminating resins
- to be processed under longitudinal stress
- shrinking is achieved by heating with a heat gun
- PU 25 m in different widths

Circumference	
38 cm	38038
42 cm	38042
47 cm	38047
52 cm	38052
57 cm	38057
63 cm	38063
71 cm	38071



PE-EINFÜLLSCHLAUCH PE FUNNEL SLEEVE

PE sleeve, endless.

Used as funnel sleeve for inserting laminating resins to selective points, for example when applying resins of different rigidity to the laminate.

Length	
50 m	70030



OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>

SILICONES AND PLASTIC MODELLING MATERIALS

SILICONE PUTTY

- Kneadable two-component silicone to fabricate elastic moulds and models.
- for orthoses, individual paddings and small fittings
 - individually adjustable hardness between 20° and 45° Shore A
 - kneadable by hand
 - grindable and polishable
 - very skin-compatible

Strictly observe the notes in the Product Information.

BKF KNETSILIKON Komponente A BKF SILICONE PUTTY

Component A

- PU 100 g / 300 g

Quantity

100	45133
300	45132

 BKF silicone putty can be ordered only in pairs.




BKF KNETSILIKON Komponente B BKF SILICONE PUTTY

Component B

- PU 100 g / 300 g

Version	100	300
B 45 (hard)	45138	45137
B 35 (middle)	45143	45139
B 20 (soft)	45142	45141

 A:B=100:100 weight proportion

 Please note our product information



PLASTILIN PLASTILIN

Permanently elastic single-component plastic modelling material based on paraffin, non-curing and reusable.

- to seal apertures
- to model tip additions while fabricating a plaster mould and much more
- easily kneadable by increasing the temperature
- colour: white
- PU 1 kg

Quantity

1 kg	46900
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OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>

THERMOPLASTIC SHEET MATERIALS

THERMOPLASTIC SHEET MATERIALS

Thermoplastic sheets have become indispensable for the daily work in orthopaedics. A speciality are the fibre-reinforced, thermoplastic BKF acrylic sheets in several hardness degrees and dimensions made by BEIL.

BKF ACRYLIC SHEET

Thermoplastic sheet material based on acrylic resin with different reinforcement layers. Applications: sole stiffeners, supporting tongues in case of forefoot amputation, supporting fittings, smaller orthoses and such...

Thermoformable in the vacuum forming machine. Available in the strengths Rigid and 80:20, each in various thicknesses in skin-colour or black. Other colours are available on request.

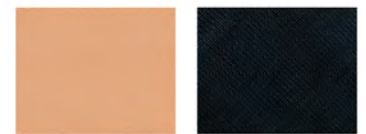
- good mechanical working properties (sawing, drilling, punching, grinding)
- good adhesive properties (also laminating with acrylic resin)
- thermoforming temperature depending on thickness and strength: 140 - 180 °C

BKF ACRYLPLATTE HART BKF ACRYLIC SHEET RIGID

Depending on the thickness, the BKF acrylic sheets Rigid are suitable for the fabrication of reinforcements in shoes, mouldings, corsets and bands for side bars / bands orthoses.

- sheet dimension: 610 x 790 mm = 0.48 m²

Thickness	Colour	black	skin
2 mm		66420	66720
3 mm		66430	66730
4 mm		66440	66740



 Please note our product information

BKF ACRYLPLATTE 80:20 BKF ACRYLIC SHEET 80:20

The BKF acrylic sheet 80:20 is particularly suitable for the fabrication of light to rigid sole stiffeners and reinforcements in orthopaedic shoes.

- sheet dimension: 610 x 790 mm = 0.48 m²

Thickness	Colour	black	skin	yellow
1 mm		66910	66610	66810
1,5 mm		66915	66615	66815
2 mm		66920	66620	66820
2,5 mm		66925	66625	66825
3 mm		66930	66630	66830
3,5 mm		66935	66635	66835
4 mm		66940	66640	66840



OUR SAFETY DATA SHEETS

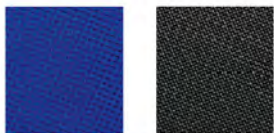
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BFK CS ACRYLIC SHEET

Thermoplastic sheet material made of special acrylic resins with different reinforcement layers for several applications.
 Thermoformable in the vacuum forming machine. Available in various thicknesses in black, raw white and blue.
 Other colours are available on request.
 - good mechanical working properties (sawing, drilling, punching, grinding)
 - good adhesive properties (also laminating with acrylic resin)
 - thermoforming temperature depending on thickness and strength: 130 - 170 °C

Due to various fabrication types with different resins and fibre materials and their orientation, respective alternative application recommendations are offered.
 Please note available Product and Processing Information.

i BKF CS acrylic sheets can be obtained in your desired dimensions.



BKF CS-ACRYLPLATTE GLAS BKF CS ACRYLIC SHEET GLASS

BKF CS acrylic sheets Glass are particularly suitable for fabricating reinforcements in orthopaedic shoes, light sole stiffeners and as support material for insoles.
 - sheet dimension: 1200 x 500 mm = 0.6 m² / 600 x 500 mm = 0.3 m²

Version (thickness)	Colour black		Colour blue	
	0.6 m ²	0.3 m ²	0.6 m ²	0.3 m ²
Glas 1A (1,4 mm)	661004	661004-4	661004-9	661004-8
Glas 2A (2,0 mm)	661005	661005-4	661005-9	661005-8
Glas 3A (3,1 mm)	661006	661006-4	661006-9	661006-8

BKF CS-ACRYLPLATTE Glas Köper BKF CS ACRYLIC SHEET GLASS TWILL

An acrylic sheet made of glass fibre in satin weave. Thus the sheet achieves a high stiffness. Suitable for strong reinforcements in orthopaedic shoes, among others.

- colour: black
 - sheet dimension: 1200 x 500 mm = 0.6 m² / 600 x 500 mm = 0.3 m²

Version (thickness)	0.6 m ²		0.3 m ²	
	Glas Köper S2 (1,5 mm)	661014	661014-4	661014-8
Glas Köper S4 (2,0 mm)	661019	661019-4	661019-8	

BKF CS-ACRYLPLATTE CARBON 3D BKF CS ACRYLIC SHEET CARBON 3D

Acrylic sheet made of 3D carbon knitted fabric allows a good three-dimensional thermoformability. Particularly suitable for fabricating moulding reinforcements and orthoses where a high 3D plasticity is required (e.g. footbed with high cups). Also suitable for the fabrication of reinforcements in corsets and bands for side bars / bands orthoses as well as face masks.
 - sheet dimension: 1200 x 500 mm = 0.6 m² / 600 x 500 = 0.3 m²

Version (thickness)	0.6 m ²		0.3 m ²	
	Carbon 3D 1A (1,3)	662004	662004-4	662004-8
Carbon 3D 2A (2,0)	662005	662005-4	662005-8	
Carbon 3D 3A (2,5)	662006	662006-4	662006-8	

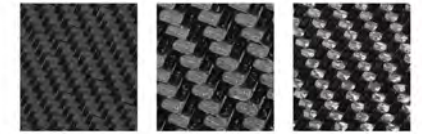


BKF CS-ACRYLPLATTE CARBON KÖPER BKF CS ACRYLIC SHEET CARBON TWILL WEAVE

Acrylic sheets made of carbon in twill weave with highest stiffness. Particularly suitable for fabricating rigid sole stiffeners.

- sheet dimension: 1200 x 500 mm = 0.6 m² / 600 x 500 mm = 0.3 m²

Version (thickness)	0.6 m ²	0.3 m ²
Carbon Köper U2 (1,1 mm)	662020	662020-4
Carbon Köper U4 (2,0 mm)	662021	662021-4
Carbon Köper U4 HF (2,8 mm)	662025	662025-4
Carbon Köper U4 LS (3,2 mm)	662040	662040-4



OTHER THERMOPLASTICS (not fibre-reinforced)

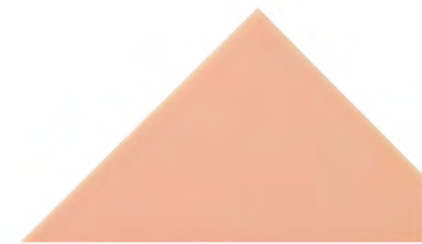
HOSTAGUR 500 HOSTAGUR 500

Hostagur 500 is a high-strength and stiff thermoplastic sheet material made of low-pressure polyethylene. Easy to weld, also formable subsequently in cold condition (suitable for hammering), thermoformable in the vacuum forming machine. Applications are, for example, sole stiffeners, foot-drop brace, stabilising heel cap, supporting fittings.

- density: 0.96 g/cm³
 - thermoforming temperature: 150 - 170 °C
 - colour: pink
 - sheet dimension: 930 x 980 mm = 0.91 m²

Thickness

2 mm	65102
3 mm	65103
4 mm	65104
5 mm	65105
6 mm	65106



MO-PLATTE MO SHEET

Thermoplastic material made of polyethylene (PE) for the vacuum forming technique.

- applications are, for example, night splints, supporting devices, orthoses.
 - density: 0.95 g/cm³
 - thermoforming temperature: 170-180 °C
 - colour: white, other colours on request
 - sheet dimension: 1000 x 1000 mm = 1 m²

Thickness

1 mm	62101
2 mm	62102
3 mm	62103
4 mm	62104
5 mm	62105
6 mm	62106



SOLE STIFFENERS

SOLE STIFFENERS

SOLE STIFFENERS

BKF sole stiffeners are cuttings made of BKF CS acrylic sheets. Depending on their reinforcement, they are thermoplastically formable, also subsequently.

Due to different fibre materials and their orientation as well as due to the resin used, a wide range of different applications is offered.

BKF SOLE STIFFENERS un moulded

The sole stiffeners can be moulded individually. BKF sole stiffeners are available in long-soled and Rigidus form.

BKF SOLE STIFFENERS long-soled

Only few corrections need to be done on these punched cuttings of BKF soles. Outsizes and undersizes are available on request.

GLAS 2 GLASS 2

BKF sole stiffeners Glass 2 are available in blue and black.

- 1 thickness (mm), PU 1 pair

Shoe size	Colour	black (2,0 mm)	blue (2,0 mm)
36		663003-36	663002-36
37		663003-37	663002-37
38		663003-38	663002-38
39		663003-39	663002-39
40		663003-40	663002-40
41		663003-41	663002-41
42		663003-42	663002-42
43		663003-43	663002-43
44		663003-44	663002-44
45		663003-45	663002-45
46		663003-46	663002-46
47		663003-47	663002-47
48		663003-48	663002-48



GLAS 3 GLASS 3

The BKF sole stiffener Glass 3 is good thermoformable, despite its thickness.
- 1 thickness (mm), PU 1 pair

Shoe size	Colour	black (3,0 mm)	blue (3,0 mm)
36		663005-36	663004-36
37		663005-37	663004-37
38		663005-38	663004-38
39		663005-39	663004-39
40		663005-40	663004-40
41		663005-41	663004-41
42		663005-42	663004-42
43		663005-43	663004-43
44		663005-44	663004-44
45		663005-45	663004-45
46		663005-46	663004-46
47		663005-47	663004-47
48		663005-48	663004-48

**CARBON KÖPER CARBON TWILL WEAVE**

These sole cuttings combine low weight with high stiffness.
- 4 thicknesses (mm), PU 1 pair

Version	U2	U4	U4 HF	U4 LS
Shoe size	(1,1 mm)	(1,8 mm)	(2,8 mm)	(3,6 mm)
36	663007-36	663008-36	663050-36	663052-36
37	663007-37	663008-37	663050-37	663052-37
38	663007-38	663008-38	663050-38	663052-38
39	663007-39	663008-39	663050-39	663052-39
40	663007-40	663008-40	663050-40	663052-40
41	663007-41	663008-41	663050-41	663052-41
42	663007-42	663008-42	663050-42	663052-42
43	663007-43	663008-43	663050-43	663052-43
44	663007-44	663008-44	663050-44	663052-44
45	663007-45	663008-45	663050-45	663052-45
46	663007-46	663008-46	663050-46	663052-46
47	663007-47	663008-47	663050-47	663052-47
48	663007-48	663008-48	663050-48	663052-48

**Glas Köper S2 + S4 GLASS HF & GLASS HF-LIGHT**

The quality Glas Köper S2 and Glas Köper S4 is a cutting of a glass fabric in satin weave. This version is suitable for soles with solid stiffness.
- 2 thicknesses (mm), PU 1 pair

Shoe size	Version	Glas Köper S2 (1,5 mm)	Glas Köper S4 (2,0 mm)
36		663039-36	663041-36
37		663039-37	663041-37
38		663039-38	663041-38
39		663039-39	663041-39
40		663039-40	663041-40
41		663039-41	663041-41
42		663039-42	663041-42
43		663039-43	663041-43
44		663039-44	663041-44
45		663039-45	663041-45
46		663039-46	663041-46
47		663039-47	663041-47
48		663039-48	663041-48

**BKF SOLE STIFFENERS Rigidus form**

BKF sole stiffeners in Rigidus form simplify the fabrication of a Rigidus insole. The insole core is ideally formed and good thermoformable.

GLAS 2, Rigidusform GLASS 2, Rigidus form

The BKF sole stiffeners Glass 2 are particularly easy to mould.
- 1 thickness (mm), PU 1 pair

Shoe size	Colour	black (2,0 mm)	blue (2,0 mm)
36		663103-36	663102-36
37		663103-37	663102-37
38		663103-38	663102-38
39		663103-39	663102-39
40		663103-40	663102-40
41		663103-41	663102-41
42		663103-42	663102-42
43		663103-43	663102-43
44		663103-44	663102-44
45		663103-45	663102-45
46		663103-46	663102-46
47		663103-47	663102-47
48		663103-48	663102-48



GLAS 3, Rigidusform GLASS 3, Rigidus form

The BKF sole stiffeners Glass 3 are recommended for heavy people.
- 1 thickness (mm), PU 1 pair



Shoe size	Colour	black (3,0 mm)	blue (3,0 mm)
36		663105-36	663104-36
37		663105-37	663104-37
38		663105-38	663104-38
39		663105-39	663104-39
40		663105-40	663104-40
41		663105-41	663104-41
42		663105-42	663104-42
43		663105-43	663104-43
44		663105-44	663104-44
45		663105-45	663104-45
46		663105-46	663104-46
47		663105-47	663104-47
48		663105-48	663104-48

BKF CS SOLE STIFFENER pre-moulded as insole

The BKF sole stiffeners are also available as pre-moulded version. They are long-soled and with a light heel-to-toe drop and therefore suitable as insole.

GLAS 2 GLASS 2

The insole with dynamics. BKF sole stiffeners are easily formable at any time.
- 1 thickness (mm), PU 1 pair



Shoe size	Colour	black (2,0 mm)	blue (2,0 mm)
36		663013-36	663012-36
37		663013-37	663012-37
38		663013-38	663012-38
39		663013-39	663012-39
40		663013-40	663012-40
41		663013-41	663012-41
42		663013-42	663012-42
43		663013-43	663012-43
44		663013-44	663012-44
45		663013-45	663012-45
46		663013-46	663012-46
47		663013-47	663012-47
48		663013-48	663012-48

GLAS 3 GLASS 3

This pre-moulded sole stiffeners are stable and durable.
- 1 thickness (mm), PU 1 pair

Shoe size	Colour	black (3,0 mm)	blue (3,0 mm)
36		663015-36	663014-36
37		663015-37	663014-37
38		663015-38	663014-38
39		663015-39	663014-39
40		663015-40	663014-40
41		663015-41	663014-41
42		663015-42	663014-42
43		663015-43	663014-43
44		663015-44	663014-44
45		663015-45	663014-45
46		663015-46	663014-46
47		663015-47	663014-47
48		663015-48	663014-48

**Glas Körper S2 + S4 GLASS HF & GLASS HF-Light**

Glas Körper is suitable for stable and well-priced sole stiffeners.
- 2 thicknesses (mm), PU 1 pair

Shoe size	Version	Glas Körper S2 (1,5 mm)	Glas Körper S4 (2,0 mm)
36		663045-36	663047-36
37		663045-37	663047-37
38		663045-38	663047-38
39		663045-39	663047-39
40		663045-40	663047-40
41		663045-41	663047-41
42		663045-42	663047-42
43		663045-43	663047-43
44		663045-44	663047-44
45		663045-45	663047-45
46		663045-46	663047-46
47		663045-47	663047-47
48		663045-48	663047-48



CARBON KÖPER CARBON TWILL WEAVE

Carbon sole stiffeners with highest stiffness. You can choose between three thicknesses.

- 3 thicknesses (mm), PU 1 pair



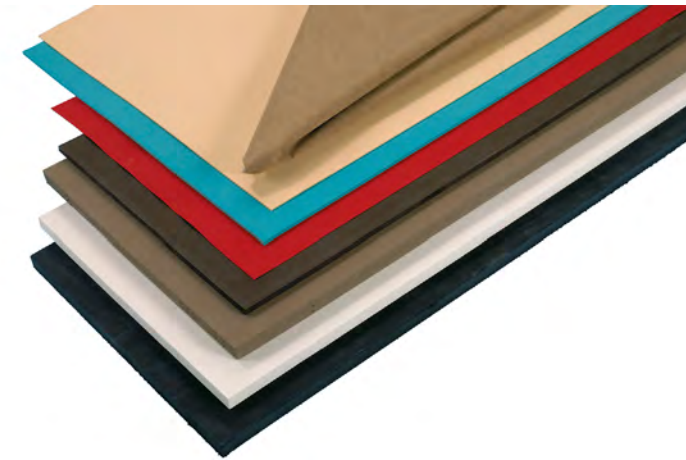
Version	U4 (1,8 mm)	U4 HF (2,8 mm)	U4 LS (3,2 mm)
Shoe size			
36	663018-36	663060-36	663062-36
37	663018-37	663060-37	663062-37
38	663018-38	663060-38	663062-38
39	663018-39	663060-39	663062-39
40	663018-40	663060-40	663062-40
41	663018-41	663060-41	663062-41
42	663018-42	663060-42	663062-42
43	663018-43	663060-43	663062-43
44	663018-44	663060-44	663062-44
45	663018-45	663060-45	663062-45
46	663018-46	663060-46	663062-46
47	663018-47	663060-47	663062-47
48	663018-48	663060-48	663062-48



SOLE STRUCTURE, BEDDING AND COVER MATERIALS

SOLE STRUCTURE, BEDDING, COVER AND PADDING MATERIALS

Materials to fabricate beddings and sole structures as well as various cover fabrics.



BEDDING MATERIALS

Materials to fabricate beddings.

MARILON MARILON

Very lightweight EVA material with very high tear strength and wear resistance.

- can be used as build-up and covering material for insoles and beddings
- colour: green
- outstanding resilience
- density: approx. 160 kg/m³
- hardness: approx. 35 Shore A
- thermoforming temperature: 130-160 °C
- sheet dimension: approx. 600 x 940 mm = 0.56 m²

Thickness

3 mm	10003
4 mm	10004
6 mm	10006
8 mm	10008
10 mm	10010



SAVILUX SAVILUX

- Very lightweight EVA material with very good resilience
- can be used as build-up and padding material for insoles and beddings
 - colour: cream
 - density: approx. 170 kg/m³
 - hardness: approx. 20 Shore A
 - thermoforming temperature: 130-160 °C
 - sheet dimension: approx. 600 x 940 mm = 0.56 m²

Thickness

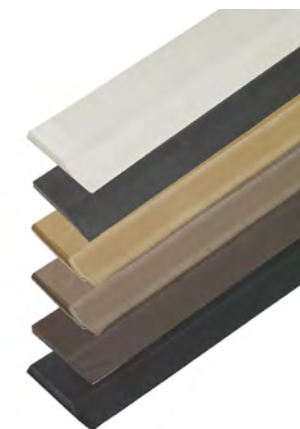
2 mm	11002
3 mm	11003
4 mm	11004
6 mm	11006
8 mm	11008
10 mm	11010

**LEICHTPORO Keilstreifen LEICHTPORO wedge strip**

- Wedge strips made of very lightweight EVA material with outstanding processing properties.
- thermoformable
 - thickness: 24 mm

Colour

brown	68860
beige	68863
grey	68864
brightbrown	68867
black	68870

**MATERIALS FOR SOLE STRUCTURE**

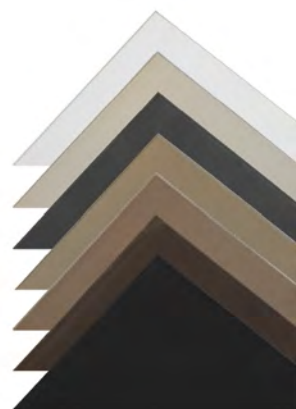
A selection of particularly suitable materials to fabricate sole structures.

LEICHTPORO Platten LEICHTPORO sheets

- Very lightweight EVA material with outstanding processing properties.
- can be used as material for sole construction as well as covering material for insoles and beddings
 - thermoforming temperature: 80-100 °C
 - density: approx. 190 kg/m³
 - hardness: approx. 50 Shore A
 - sheet dimension: approx. 600 x 1100 mm = 0.66 m²

Thickness

	06 mm	08 mm	10 mm	20 mm
Colour				
black	69926	69928	69824	69820
brightgrey	69986	69988	69880	69884
brightbrown	69968	69970	69854	69850
grey	69961	69962	69960	69973
white	69946	69948	69846	69840
brown	69936	69938	69834	69830

**VOLLVULKOLLAN VULKOLLAN**

- PUR sheet material, non-thermoplastic and tough-elastic.
- for example for tear-proof outsoles on inner shoes and midsoles
 - fatigue resistant
 - sheet dimension: 0.25 m²

Thickness

1 mm	51101
1,5 mm	51115
2 mm	51120



PADDING MATERIALS

The padding materials from BEIL cover a wide range of applications. Use, type of processing and how the material will be stressed later on are decisive for the selection.

ZELLVULKOLLAN weich CELLULAR VULKOLLAN soft

High-quality soft PUR foam supplied in sheets.

- ideal for foot supports, insoles and much more.
- open-cell structure
- not thermoplastically formable
- very good resilience and tear resistance, almost fatigue-proof
- no UV resistance
- density: approx. 300 kg/m³
- hardness: 16-22° Shore A
- sheet dimension: 250 x 500 mm = 0.125 m²



Thickness

1 mm	50101
2 mm	50102
3 mm	50103
4 mm	50104
5 mm	50105
6 mm	50106

ZELLVULKOLLAN mittel CELLULAR VULKOLLAN medium

High-quality PUR foam supplied in sheets.

- ideal for foot supports, insoles, buffer heels, forefoot replacement and much more
- open-cell structure
- not thermoplastically formable
- very good resilience and tear resistance, almost fatigue-proof
- no UV resistance
- bulk density: approx. 400 kg/m³
- hardness: 27-33° Shore A
- sheet dimension: 250 x 500 mm = 0.125 m²



Thickness

1 mm	50301
2 mm	50302
3 mm	50303
4 mm	50304
5 mm	50305
6 mm	50306

MOOSGUMMI MICROCELLULAR RUBBER

Microcellular rubber, cellular rubber for padding.

- hardness: 10-20° Shore A
- closed-cell structure
- not thermoplastically formable
- no UV resistance
- colour: skin-colour
- sheet dimension: 1 m²

Thickness

2 mm	47102
3 mm	47103
4 mm	47104
6 mm	47106



POLYSCHAUM 50 POLYFOAM 50

Polyfoam 50 is a very lightweight, thermoplastic padding material with closed-cell structure made of foamed polyethylene.

- bulk density: 45 kg/m³
- hardness: 15-17° Shore A
- thermoforming temperature: approx. 160 °C
- colour: skin-colour, also available in white on request
- sheet dimension: 1 m²

Thickness

2 mm	48202
3 mm	48203
4 mm	48204
5 mm	48205
6 mm	48206
8 mm	48208
20 mm	48220



POLYSCHAUM 200 POLYFOAM 200

Polyfoam 200 is a lightweight, thermoplastic padding material with closed-cell structure made of foamed polyethylene.

- bulk density: 170 kg/m³
- hardness: 30-32° Shore A
- thermoforming temperature: 110-130 °C
- colour: skin-colour, also available in white
- sheet dimension: 1.2 m²

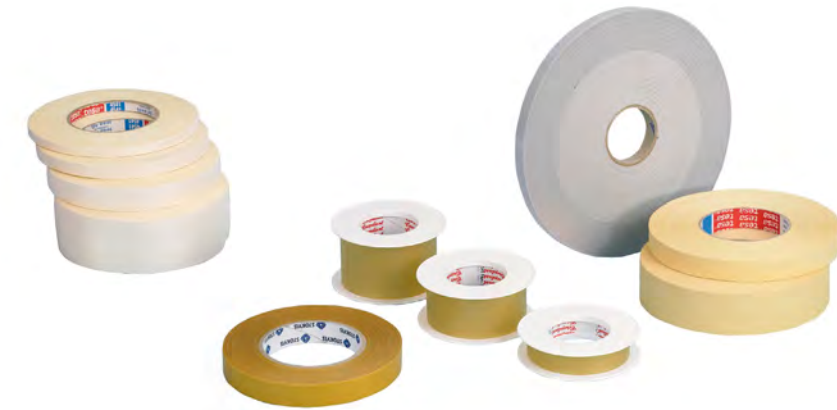
Thickness

2 mm	48302
3 mm	48303
4 mm	48304
5 mm	48305
6 mm	48306
8 mm	48308
10 mm	48310



ADHESIVE TAPES AND OTHER ACCESSORIES

ADHESIVE TAPES AND OTHER ACCESSORIES



ADHESIVE TAPES

Adhesive tapes for fixing, sealing, closing and reinforcing in a wide range of applications.

COROPLAST COROPLAST

Transparent, soft PVC adhesive tape for multiple use in the workshop. Also suitable for sealing and reinforcing PVA films, for fixing proof shoes and much more

- impervious to fluctuating temperatures
- exceptional ageing resistance
- thicknesses available: 0.1 and 0.15 mm
- widths available: 19, 38 and 50 mm
- length: 25 m

Thickness / Width

0,10 / 19 mm	25030
0,10 / 38 mm	25040
0,10 / 50 mm	25050
0,15 / 50 mm	25250



GEWEBEKLEBEBAND CLOTH TAPE

Uncoated, very tearproof adhesive tape for many applications.

- high adhesive strength
- easy to letter
- temperature-resistant up to 130 °C at 30 min

Width

6 mm	26006
9 mm	26009
12 mm	26012
19 mm	26019
50 mm	26050



POLYETHYLENKLEBEBAND POLYETHYLEN ADHESIVE TAPE

Elastic transparent adhesive tape made of polyethylene.

- ideal for sealing of PVA film
- good resistance to chemicals and solvents
- strong adhesion and UV resistance
- length: 33 m



Width	
25 mm	26060

TESA-KREPP TESA CREPE

Highly creped adhesive tape to cover nails and staples, during painting and varnishing works or the like.

- hand-tearable
- easy to remove
- length: 50 m



Width	
19 mm	27019
38 mm	27038

DOPPELSEITIGES KLEBEBAND DOUBLE-SIDED ADHESIVE TAPE

Very thin, double-sided adhesive tape to fasten local reinforcements in the laminate.

- use sparingly
- width: 19 mm
- length: 50 m



Width	
19 mm	27051

TESA-MOLL TESA MOLL FOAM

Foam adhesive tape for sealing. Suitable to mark the edges of the work area in the hand laminating process.

- thickness: 4 mm
- width: 15 mm
- length: 10 m



Width	
15 mm	26081

KLETTOSCHEIBEN selbstklebend VELCRO DOTS self-adhesive

Self-adhesive Velcro dots in various sizes. Hooks and loops in round shape.

- colour: white, other colours upon request
- two sizes available
- PU 100 units



Diameter	Side	cling side	fleece side
22 mm		58664	58665
47 mm		58666	58667

ACCESSORIES

Accessories for the workshop that make it easier for technicians to perform their daily tasks.

GUMMI-ISOLATIONSBEUTEL zylindrisch LATEX CONE cylindrical

Skin-friendly protection when making a plaster cast. Also suitable to insulate the moisture of the positive model. The resulting smooth inner surface of the plaster cast saves modelling works.

Size	Shape	cylindrical
250 x 075 x 0,5 mm		79000
330 x 090 x 0,3 mm		79200
320 x 110 x 0,3 mm		79400
250 x 090 x 0,6 mm		79350
750 x 180 x 0,5 mm		79960

**GUMMI-ISOLATIONSBEUTEL Fußform LATEX CONE foot shape**

Protection for feet when making a plaster cast.

- 2 sizes

Size	Shape	foot shape
small		79600
large		79800

**HOLZSPATEL WOODEN SPATULA**

For mixing resins, foams and moulding compounds.

- planed beech wood
- very smooth and clean surface
- available in three lengths
- PU 100 units

Length	
15 cm	75015
25 cm	75025
30 cm	75030



KUNSTSTOFFBECHER PLASTIC MIXING CUPS

For mixing liquid plastics.

- available in two sizes
- PU bar: medium 46 units/ large 50 units
- PU carton: medium 736 units/ large 450 units



PU in units	Size	large 1,0 l	medium 0,5 l
Carton		74230-KT	74245-KT
Bar		74230-ST	74245-ST

MESSBECHER MEASURING CUPS

Clear, sturdy measuring cups made of polypropylene with scaling.

- 5 sizes between 0.5 and 5 l

Size	
0,5 l	73050
1 l	73100
2 l	73200
3 l	73300
5 l	73500

**VULKOLLANBAND VULKOLLAN TAPE**

Tough-elastic tape to reliably seal the PVA film sleeves on the laminating jig.

- length: 366 cm



Width	
10 mm	70021

KEVLAR-SCHERE KEVLAR SHEARS

Special shears to cut Kevlar fabric.



Quantity	
1	70303

GIPS-SCHERE PLASTER SHEARS

Plaster shears in sturdy design.

- 2 springs
- 23 cm
- polished

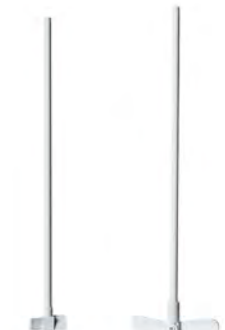
Quantity	
1	70307

**PROPELLERRÜHRER PROPELLER STIRRER**

Machine stirrer for clamping into the drilling machine

- available with fixed and flexible blades
- with fixed blades: length of 33.5 cm
- with flexible blades: length of 35 cm
- material: plastic with separating properties to remove all material residues.

Version	
mobile wing	76002
fixed wing	76003

**GUMMIWICKELBINDE RUBBER ELASTIC BANDAGE**

To keep warm thermoplastic parts when fitting on the model.

- sufficiently temperature-resistant
- width: 7.5 cm

Length	
2,5 m	57100-2,5
50 m	57100-50

**FLACHPINSEL FLAT BRUSH**

Well-priced version to work with liquid plastics.

- width: 25 mm

Quantity	
1	78001



**TEFLON-FOLIE** **TEFLON SHEET**

As a layer to cover the oven panels or other plates

- Highly isolating properties
- Withstands heat up to 260°C
- Antistatic
- Other dimensions available upon request.

Quantity

1 m ²	70012
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**TEFLON RILLENWALZE** **GROOVED ROLL MADE OF TEFLONE**

To roll the laminating resin into the reinforcing fabric at the open laminating technique.

Quantity

1 Stück	76001
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**KOPIERSTIFT** **INDELIBLE PENCIL**

To highlight on humid plaster casts.

- available in 2 colours

Colour

blue	80304
red	80303

**ABREIßGEWEBEBAND** **PEEL PLY TAPE**

For the surface treatment on laminates. When used as outer layer in the prepreg process, a uniformly roughened surface is achieved after the laminate has cured and the peel ply has been torn off.

- no further grinding necessary
- width: 50 cm

Length

10 m	34250-10
------	----------

**ABREIßGEWEBE** **PEEL PLY**

For the surface treatment on laminates. When used as outer layer in the prepreg process, a uniformly roughened surface is achieved after the laminate has cured and the peel ply has been torn off.

- width: 75 cm
- dimension: 1 m²

Quantity

1 m ²	34220-1
------------------	---------

FALTENBALGVERSCHLUSS 2,5 l & 5 l Kanister **CRIMP-ON SPOUT CAP FOR 2.5 l & 5 l containers**

For an accurate dosing and clean working.

- suitable for 2.5 l, 4.6 l and 5 l plastic containers

Container size	Colour	black / red	blue / white
2,5 l			801067
5 l		801265	801266

**AUSLAUFHAHN FÜR 25 L -KANISTER** **DRAIN COCK FOR 25 L CONTAINERS**

For an accurate dosing and clean working.

- suitable for 25 kg plastic and metal containers

Material

Plastic container	81900
-------------------	-------

**SOLVENTS****KLEB-EX** **KLEB-EX**

To remove labels from solid surfaces.

Quantity

200 ml	56301
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**TAUCHMITTEL C** **COATING MATERIAL C**

Coating material for caps, solvent-containing

Quantity

1 l	64101
2,5 l	64125
5 l	64150





ACETON ACETONE

Organic solvent for degreasing and cleaning.

Quantity

1 l	19001
-----	-------



REINIGUNGSMITTEL W CLEANSER W

Organic solvent for varnishes and laminating resins.

Quantity

1 l	15001
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OUR SAFETY DATA SHEETS

<https://beil-peine.de/en/downloads/>



WORKSHOP EQUIPMENT AND WORK PROTECTION

WORKSHOP EQUIPMENT AND WORK PROTECTION



WOKSHOP EQUIPMENT

Equipment for the workshop that makes it easier for technicians to perform their daily tasks.

GIEBHARZGERÄT komplett LAMINATING JIG complete

Essentially for the fabrication of fibre-reinforced plastic parts with the two-way exhaust method.

- very sturdy design
- available with two different plate diameters
- manifold adjustments (can be swivelled and is adjustable in height)
- can be clamped directly into the bench vice
- all parts are available seperately, e.g. to modify from 100 to 130 mm plate diameter

Plate diameter

100 mm	70008
130 mm	70004

 Please note our available technical and processing information.



HALTER für Gießharzgerät MOUNT JIG for laminating jig

Clamp the mount jig into the bench vice to reduce the working height by 25 cm.

Quantity

1	70050
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LEISTENSCHRAUBE T-HEAD BOLTS

For the firm attachment of the model in the laminating jig.



Size	
12 x 100 mm	70601
12 x 120 mm	70602

VERTEILERVENTIL DISTRIBUTION VALVE

Enables the connection of the laminating jig to the vacuum forming device. The distribution valve allows a separate regulation of the top and bottom films.



Quantity	
1	70010

ABSAUGSCHLAUCH SUCTION HOSE

Connects the vacuum pump with the laminating jig. The required length is available as running metre.



Quantity	
1 m	70009

DIGITALWAAGE 440-53N DIGITAL SCALE 440-53N

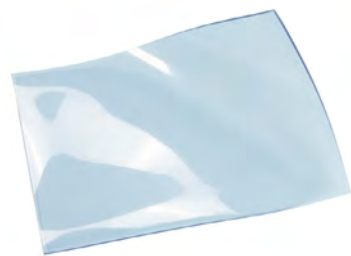
Digital scale with a measurement range up to 6000 g.
 - scale range in g
 - removable weight plate made of stainless steel
 - for battery and mains operation
 - including power supply and calibration weight



Quantity	
1	70351

ZUSCHNEIDEPLATTE CUTTING PLATE

High-quality pad for cutting and punching.
 - thickness: 7 mm
 - further dimensions on request



Size	
50 x 075 cm	60018
50 x 100 cm	60015

LAMINIERGERÄT TLV6-II LAMINATING DEVICE TLV6-II

Powerful laminating device for two laminating workplaces with a direct connection for vacuum forming.



Quantity	
1	70504

VACUMAT VACUMAT

Vacuum device for lamination works in the exhaust method.
 - two separate exhaust systems each with a display



Quantity	
1	70500

VAKUUMPUMPE VD-2 VACUUM PUMP VD-2

For lamination works in the exhaust method. To be mounted to the workplace, e. g. under the workbench.



Quantity	
1	70502

WORK PROTECTION PRODUCTS

Ensure safety with products for worker and health protection.
 Personal protective equipment (PPE) for different fields of activity and protection requirements.

RESPIRATORS

Respirators are available in various types against different vapours and dusts.
 For the various 3M™ respirators offered please note our Technical Information.

DOPPELSCHUTZMASKE 6000er Serie HALF FACE MASK 6000 series

Flexible modular system to make individual filter combinations possible. Several filters for different hazardous substances available. For works in orthopaedics and shoe orthopaedics, the following basic filters to protect against gases, vapours and particulates are recommended.

Version	
Half face mask 6200	82093
Filter 6055 A2 2er Set	82094
Filter 5925 P2 2er Set	82095
Filtercover 501 2er Set	82096





**FEINSTAUBMASKE 4251 FILTERING FACEPIECE
RESPIRATOR 4251**

Respirator to protect against gases, vapours and particulates, FFAP1SL (EN 149).

Quantity	
1	82092

GLOVES

Gloves available for various applications.
Please note our Technical Information.



**BAUMWOLL-SCHUTZHANDSCHUHE COTTON PROTECTIVE
GLOVES**

Long protective gloves with good heat protection.
- length: 45 cm
- PU 1 pair



KEVLAR-HANDSCHUHE gestrickt KEVLAR GLOVES knitted

Thick gloves with good heat protection.
- length: 27 cm
- PU 1 pair



**KEVLAR-HANDSCHUHE grob gestrickt KEVLAR GLOVES
heavy weight knitted**

Extra thick gloves with very good heat protection.
- length: 27 cm
- PU 1 pair

Version	
without cuff	81400
with cuff	81401

SAFETY GOGGLES

Reliable safety goggles for safe working in the workshop.

SCHUTZBRILLE OX 2000 SAFETY GOGGLES OX 2000

Safety goggles with adjustable lock-in temples and rotating tips.
- with DX-coating
(protection against scratches and misting, antistatic and chemical influences).



1	81711
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HEARING PROTECTION

To avoid hearing damage.

**CABOFLEX GEHÖRSCHUTZBÜGEL CABOFLEX BANDED
EAR PLUGS**

The light Caboflex banded ear plugs are particularly recommended when alternating between silent and noisy areas and therefore often have to put on and take off the ear protection. If not in use, simply wear it around the neck. The conical ear plugs fit the ear canal and protect against noise.



Quantity	
1 Stück	81790
Ersatzstöpsel, 1 Set	81791

SKIN PROTECTION

Optimum skin protection for hands.

HAUTSCHUTZSALBE SKIN PROTECTION CREAM

Moderate greasy protection cream with a broad range of effect.
- particularly suitable when using solvents, resins, varnishes and others
- silicone-free
- 100 ml/ tube



Quantity	
1	81005

- **Molding and separating materials**
- **PUR liquid foam systems**
- **Resins, putties and moulding compounds**
- **Laminating resins and hardener**
- **Chemical products and specials**
- **Separating films**
- **Reinforcing materials**
- **Sole stiffeners**
- **Thermoplastic sheet materials**
- **Sole structure, bedding and cover materials**
- **Workshop equipment and protection**
- **Services**



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