

# BEIL

Orthopädie Kunststoffe  
orthopedic plastics | since 1962

- **EVERYTHING FOR LAMINATING**
- **SEPARATING AND FOAMING**
- **ACRYLIC SHEETS**



[www.BEIL-PEINE.de](http://www.BEIL-PEINE.de)  
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## About BEIL

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 ensures our high standards.

BEIL brands and products are well known and proven in Germany and abroad. They are optimally tailored to the needs and wants of our customers in the orthopaedic workshop and offer maximum quality. Professional solutions on customised materials as well as practise-oriented applications and processing techniques are being continually developed together with workshop professionals and complement our product range.

More than ever, BEIL considers assisting the customers in using the products as on of our tasks. Of course, also when it concerns safety-related matters of processing.

BEIL products and materials are distributed both via dealer and direct sales. The processing according to legal and regulatory requirements in terms of packaging and shipping, nationally and internationally, is guaranteed at all times.

The close, cooperative relationships we share with our sales partners and users in the workshop pursues the goal: Perfect work results in the workshop with Orthopaedic Plastics from BEIL.



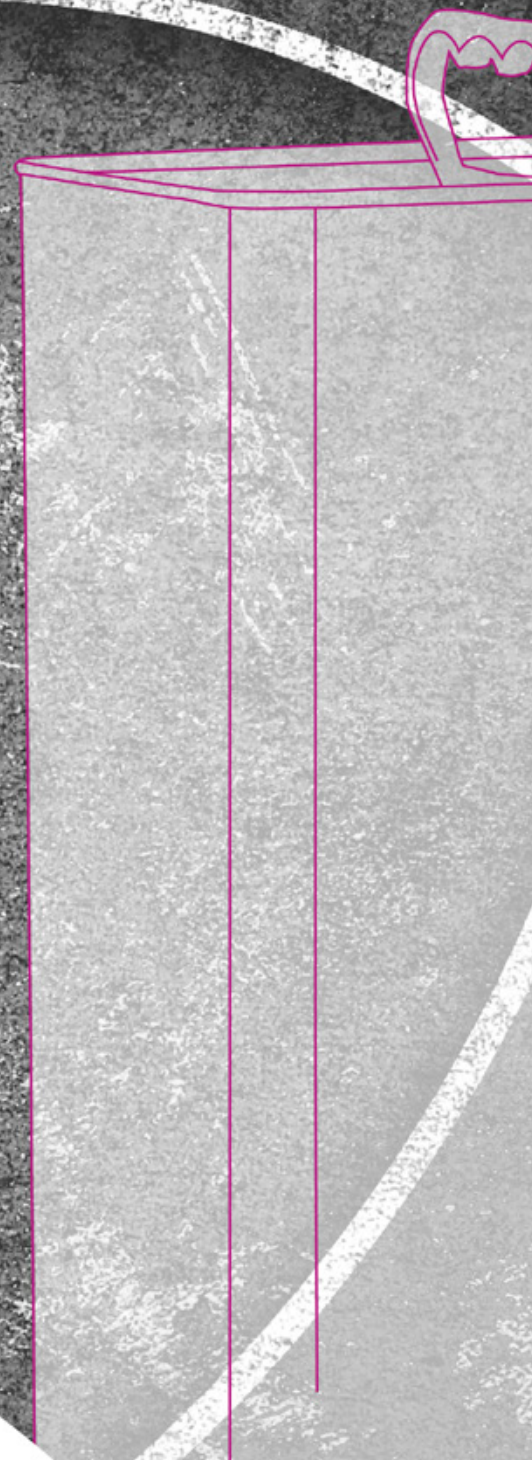
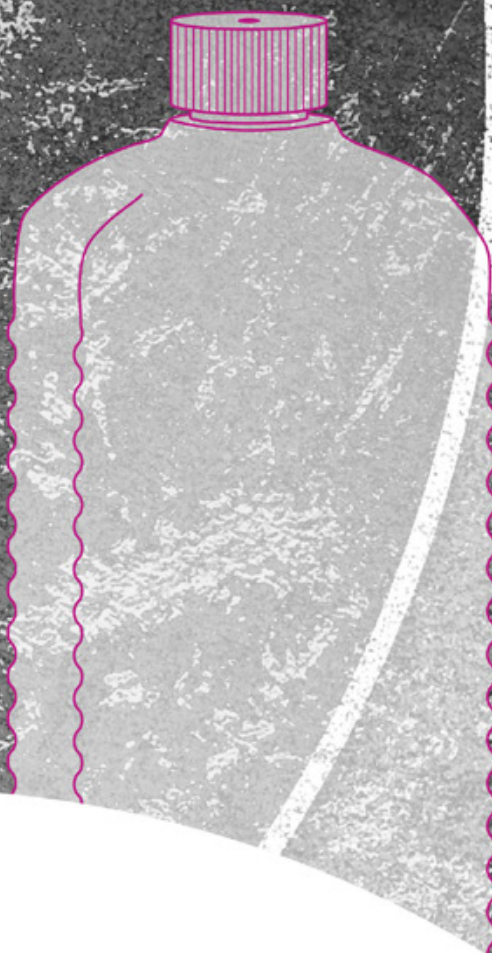


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# MOULDING, SEPARATING AND FOAMING



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## 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



SD

#### ABFORMER Komponente B **ABFORMER Component B**

Hardener component for Abformer (copying paste) component A.

##### Quantity

0,4 kg	43930
1,85 kg	43934



SD

#### GIPS-ISOLIERCREME **PLASTER BARRIER CREAM**

Skin-friendly barrier cream when making plaster casts.

- no dropping
- no sticking

##### Quantity

1 kg	80150
------	-------



**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



PI SD

### 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



SD

### 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



SD



**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
------	-------



### 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
--------	-------



### 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
--------	-------



A detailed microscopic image of a porous foam structure, showing a complex network of interconnected cells and fibers. The cells are irregular in shape, ranging from small circles to elongated ovals. The walls of the cells are thin and dark, creating a high-contrast, textured appearance. The overall structure is highly porous, with many open spaces between the cells.

## PUR LIQUID FOAM SYSTEMS



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## 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/m<sup>3</sup>. 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/m<sup>3</sup> 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/m<sup>3</sup> 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/m<sup>3</sup> it is very lightweight and good grindable

With a density of 200 kg/m<sup>3</sup> 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/m<sup>3</sup> 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





## 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

## 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 700 is a high-strength rigid foam with a density of 700 kg/m<sup>3</sup> and an expansion factor of approx. 1.6. It is ideal for orthopaedic shoe lasts.

ALPHA-PLAST 300 is a light rigid foam with a density of 300 kg/m<sup>3</sup> and an expansion factor of approx. 3.7.

ALPHA-PLAST 200 is the lightest rigid foam in the ALPHA-PLAST line. It has a density of approx. 200 kg/m<sup>3</sup> 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	200 kg/m <sup>3</sup>	300 kg/m <sup>3</sup>	700 kg/m <sup>3</sup>
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/m<sup>3</sup>
- 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

**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



## 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/m<sup>3</sup> 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/m<sup>3</sup> 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/m<sup>3</sup> 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/m<sup>3</sup> 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 Quantity	100 kg/m <sup>3</sup>	150 kg/m <sup>3</sup>	300 kg/m <sup>3</sup>	500 kg/m <sup>3</sup>
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/m<sup>3</sup> and an expansion factor of approx. 2.0.

ASTI-Tech 300 F is a medium-heavy flexible foam with a density of 300 kg/m<sup>3</sup> 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 /m<sup>3</sup> 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



**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

 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

**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	
darkbrown		7037	
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.



## ASTI-TECH®

Härter für PUR Weichschaum ASTI-Tech und ASTI-Tech F  
Hardener for flexible foams ASTI-Tech and ASTI-Tech F

Inhalt: 2,5 kg

Art. Nr. 43490

Dosierung nach Angabe auf  
dem Schaum-Gebinde.

Vor Gebrauch schütteln!



Siehe beachten Sie weitere  
Informationen zu diesem Produkt  
auf unserer Homepage.



www.BEIL-POW.de

Orthopädie Kunststoffe orthopedic plastics (www.BEIL)  
Lohmühlweg 25 DE-31224 Peine Tel. +49(0)5171/78180 Fax 781839



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PUR flexible foam

Inhalt: 2,5 kg

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# FILLING AND MOULDING



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## 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-STYROLFREI BKF PUTTY C-STYRENE FREE

Heavy, partially flexible polyester putty without styrene.

- no unpleasant odours
- filling and fine putty
- very good grindable
- good nailable, even on the edges

##### Quantity

1 kg	36931
2,5 kg	36932
5 kg	36935



Hardening by 3-4 % hardening paste



#### 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, smoot 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





## ACRYLIC FILLER



## 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

## 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
-------	-------



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
---------	-------



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.

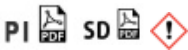
- For curing fillers and moulding compounds based on polyester and acrylic
- follow the filler container's instruction for dosage
- hardening paste red changes the color of the coating, so that the mixing can be checked easily

**Quantity**

50 g	4100
200 g	4200



## 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-Quicl Product Information

#### Quantity

5 kg	36835
10 kg	36830



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### MICROBALLON **MICROBALLOON**

Very lightweight filler without reinforcing effect.

- hardly any segregation
- improved grindability

#### Quantity

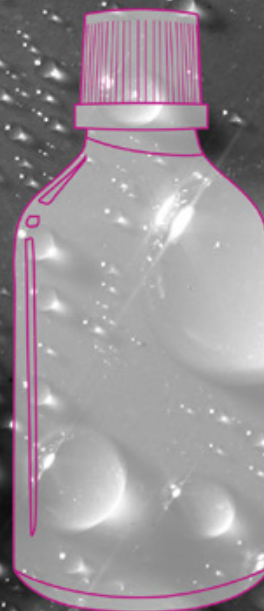
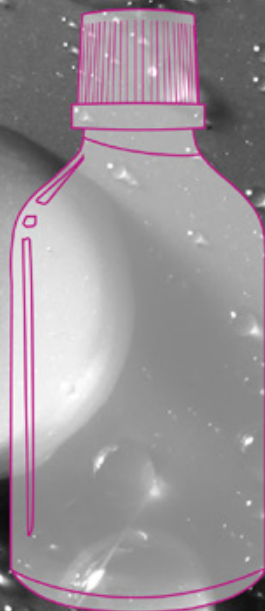
500 g	37100
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SD 



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



## 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
-----	-------

**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
------	------



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

 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	
darkbrown		7037	
blue		7104	
firered		7107	
black		7110	
yellow		7112	

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



SD **AEROSIL AEROSIL**

Thixotroping agent to reduce the flowability of resins.

**Quantity**

500 g	37500
-------	-------

 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
--------	-------

SD   **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
--------	-------

SD   

## 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/m<sup>2</sup> 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 <sup>2</sup>	86005-1
5 m <sup>2</sup>	86005-5





### **CARBONGEWEBE, Körperbindung** **CARBON FABRIC, twill weave**

Carbon fabric 200 g/m<sup>2</sup> 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 <sup>2</sup>		86008-1	86010-1
5 m <sup>2</sup>		86008-5	86010-5
50 m <sup>2</sup>		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 <sup>2</sup>	345 g/m <sup>2</sup>	395 g/m <sup>2</sup>
1 m <sup>2</sup>		40043-1	40045-1	40046-1
5 m <sup>2</sup>		40043-5	40045-5	40046-5



### **GLASSEIDENKOMBIMATTE** **GLASS FIBRE COMPOSITE MAT**

Combination of a heavy fabric with a fleece of 1050 g/m<sup>2</sup>. For sole sitffeners and other thick-walled and rigid laminates.

- width: 1.25 m

Quantity	
1 m <sup>2</sup>	40200-1

**i** ideal for hand-laminating process

**BIGELOWMATTE BIGELOW MAT**

Glass fibre snippets mat of 225 g/m<sup>2</sup>. For rigid laminates made of polyester resin.

- spherical forms can easily be formed.

- width: 1.25 m

**Quantity**

1 m <sup>2</sup>	40455-1
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Ideal for hand lamination!

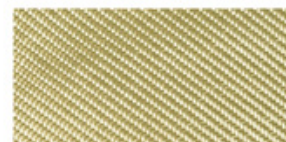
**KEVLARGEWEBE, Körperbindung KEVLAR FABRIC, twill weave**

Kevlar fabric 170 g/m<sup>2</sup> 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 <sup>2</sup>	40222-1
5 m <sup>2</sup>	40222-5

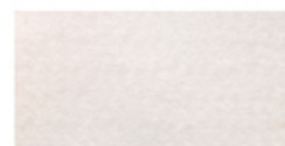
**DACRONFILZ DACRON FELT**

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 <sup>2</sup>	34202-1
50 m <sup>2</sup>	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/m<sup>2</sup>

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/m<sup>2</sup>

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/m<sup>2</sup>

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/m<sup>2</sup>

- 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/m<sup>2</sup>

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/m<sup>2</sup>
- storage dry and protected from UV radiation
- we recommend Kevlar shears for cutting
- very hygroscopic, dry before processing
- width: 75 mm



### Lenght

10 m	35215-10
50 m	35215-50

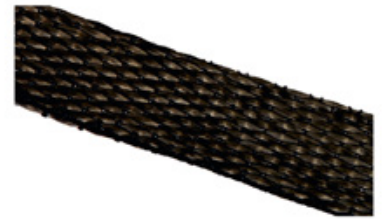
## BRAIDED STOCKINETTES

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



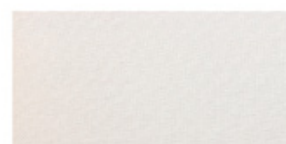
### HELANCA-TRIKOTSCHLAUCH **HELANCA STOCKINETTE**

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**

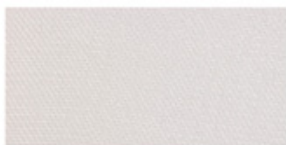
Used as outer layers (finish) for all laminates it creates a smooth surface.

- 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

 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

**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	

 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.

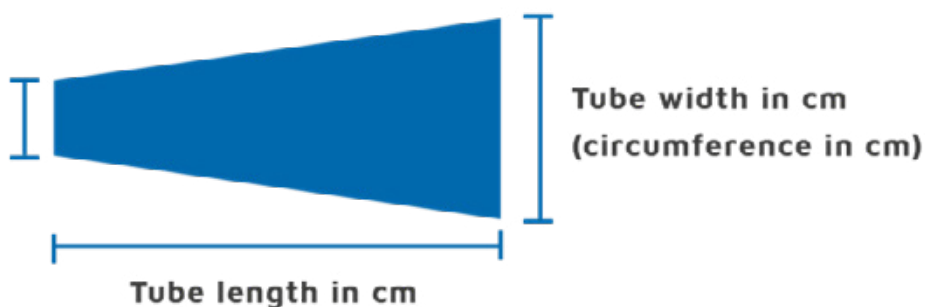
PVA film sleeves have a conical form and are available in several lengths, widths and two different thicknesses.

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	







SD 

## 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



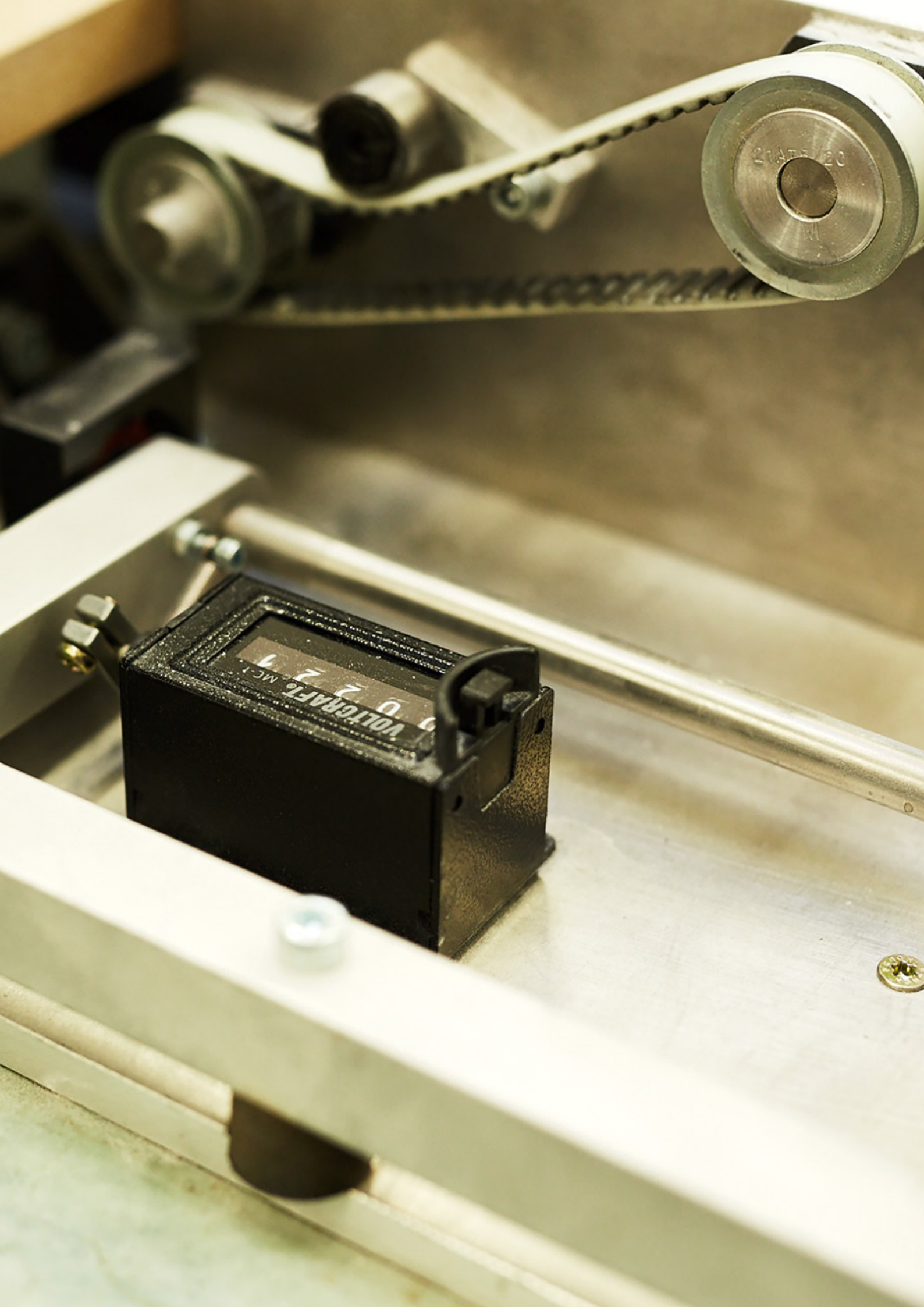
## PE-EINFÜLLSCHLAUCH PE FUNNEL SLEEVE

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
------	-------





# SILICONES AND PLASTIC MODELLING MATERIALS



Orthopädie Kunststoffe . orthopedic plastics | since 1962

## 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 300 g

##### Quantity

1	45132
---	-------



BKF silicone putty can be ordered only in pairs.



#### BKF KNETSILIKON Komponente B BKF SILICONE PUTTY

##### Component B

- PU 300 g

##### Version

B 45 (hard)	45137
B 35 (middle)	45139
B 20 (soft)	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



BEIL HE-plus

www.BEIL-PEINE.de  
orthopädische Kunststoffe, orthopedic plastics | since 1962  
31874 Peine · Tel. +49(0)51 71/70 99 0 · Fax 70 99 29



HE-plus

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HE-plus

# THERMOPLASTIC SHEET MATERIALS



Orthopädie Kunststoffe . orthopedic plastics | since 1962

## 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 m<sup>2</sup>

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 m<sup>2</sup>

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



## BKF 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.

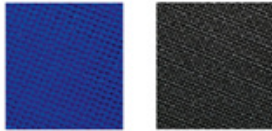
Other colours are available on request.

- 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.

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



SD 

### 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 m<sup>2</sup>

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

### BKF CS-ACRYLPLATTE GLAS HF BKF CS ACRYLIC SHEET GLASS HF

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 m<sup>2</sup>

Version (thickness)	
Glas HF (2,3 mm)	663380
Glas HF light (2,0 mm)	663385





## BKF CS-ACRYLPLATTE GLAS CARBON **BKF CS ACRYLIC SHEET GLASS CARBON**

A hybrid of the BKF CS acrylic sheets family. Combines the advantages of glass and carbon reinforcements.

- sheet dimension: 1200 x 500 mm = 0.6 m<sup>2</sup>
- colour: black

### Type (Thickness)

Glas 2A Carbon Köper (2,5)	661080
Glas 2A Carbon UD (2,0)	661015



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## BKF CS-ACRYLPLATTE GLAS LW **BKF CS-ACRYLIC SHEET GLASS LW**

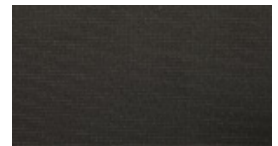
BKF CS acrylic sheets Glass LW are particularly suitable for fabricating reinforcements in orthopaedic shoes, light sole stiffeners and as support material for insoles, as well as spring-load fittings.

Uniform force absorption in longitudinal and transverse direction.

- sheet dimension: 1200 x 500 mm = 0.6 m<sup>2</sup>

### Type (Thickness)

Glas LW (1,5 mm)	661100
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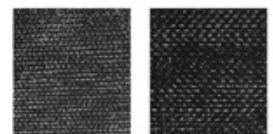
## BKF CS-ACRYLPLATTE CARBON 3D **BKF CS ACRYLIC SHEET CARBON 3D**

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 m<sup>2</sup>

### Version (thickness)

Carbon 3D 1A (1,3)	662004
Carbon 3D 2A (2,0)	662005
Carbon 3D HF (2,5)	662010



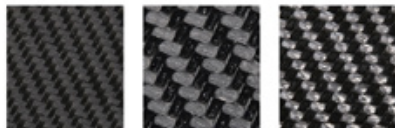
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## BKF CS-ACRYLPLATTE CARBON KÖPER **BKF CS** ACRYLIC SHEET CARBON TWILL WEAVE

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 m<sup>2</sup>



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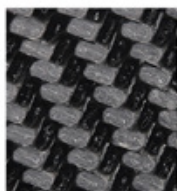
### Version (thickness)

Carbon Köper U2 (1,1 mm)	662020
Carbon Köper U4 (2,0 mm)	662021
Carbon Köper U4 HF (2,8 mm)	662025
Carbon Köper U4 UHF (3,2 mm)	662030
Carbon Köper U4 LS (3,6 mm)	662040

## BKF CS-ACYRLPLATTE FLEX **BKF CS** ACRYLIC SHEET FLEX

Flexible acrylic sheet with carbon fibres as reinforcement. Suitable for insoles and parts of orthoses with flexible stiffeners.

- sheet dimension: 1200 x 500 mm = 0.6 m<sup>2</sup>



SD 

### Version (Thickness)

Köper (0,5 mm)	662060
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## 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/cm<sup>3</sup>
- thermoforming temperature: 150 - 170 °C
- colour: pink
- sheet dimension: 930 x 980 mm = 0.91 m<sup>2</sup>

#### 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/cm<sup>3</sup>
- thermoforming temperature: 170-180 °C
- colour: white, other colours on request
- sheet dimension: 1000 x 1000 mm = 1 m<sup>2</sup>

#### Thickness

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



**BKF PETG Clear BKF PETG Clear**

Thermoplastic material for prosthetics.

- transparent
- very high impact resistance
- sheet dimension: 300 x 300 mm = 0.09m<sup>2</sup>

**Thickness**

3 mm	61033
5 mm	61035

**BKF STEIF BKF STEIF**

BKF© STEIF (rigid) is a thermoplastic material made of polystyrene for the vacuum forming technique.

- excellent vacuum-forming properties
- extra high impact resistance
- particularly suitable for fabricating self-supporting test sockets
- transparent
- sheet dimension: 400 x 400 mm = 0.16 m<sup>2</sup>

**Thickness**

8 mm	61908
12 mm	61912
15 mm	61915

SD 

**BKF FLEX BKF FLEX**

Thermoplastic EVA material for flexible inner sockets.

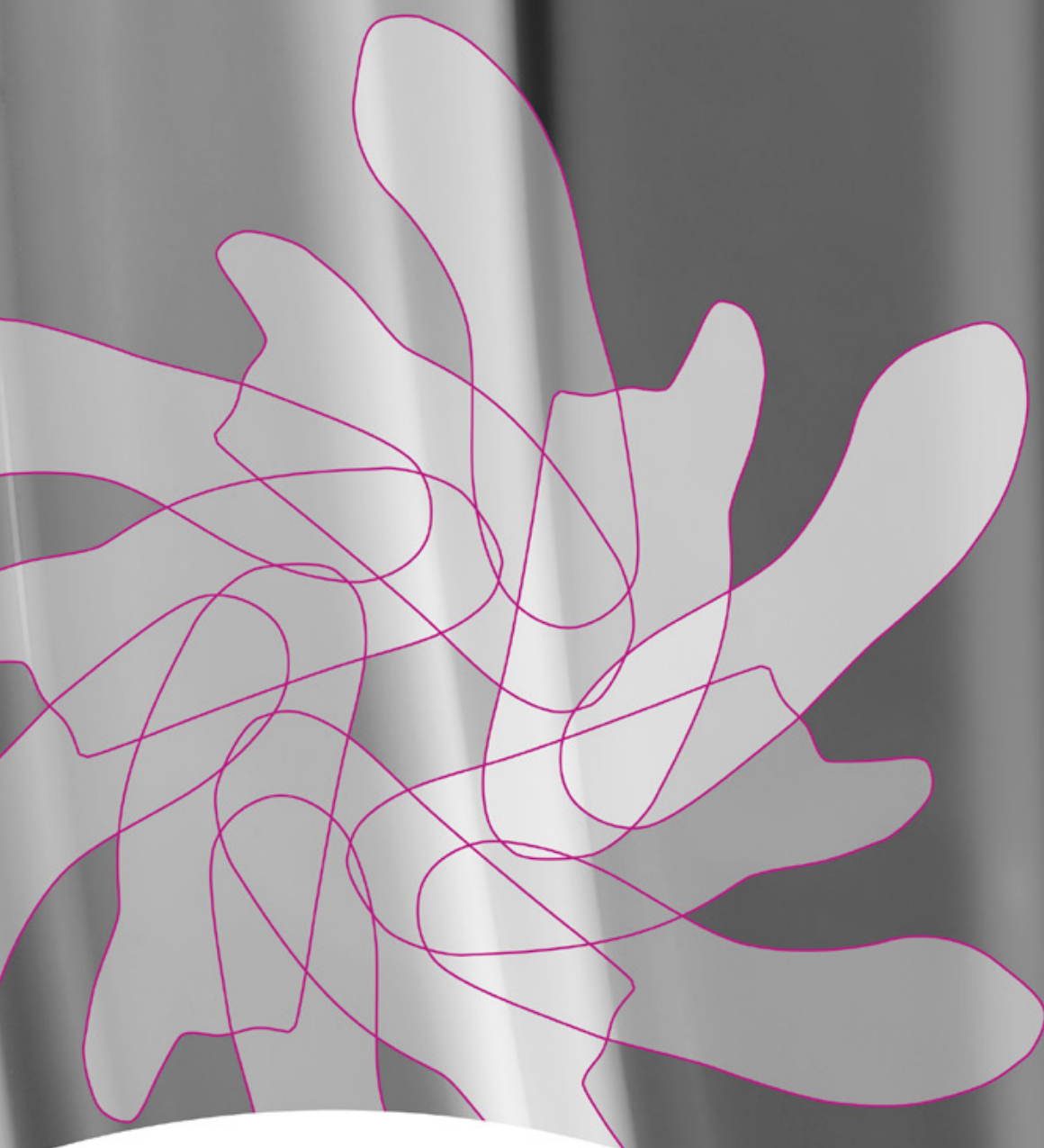
- sheet dimension: 400 x 400 mm = 0.16 m<sup>2</sup>

**Thickness**

12 mm	62012
14 mm	62014



## SOLE STIFFENERS AND INSOLES



Orthopädie Kunststoffe . orthopedic plastics | since 1962

## SOLE STIFFENERS AND INSOLES

### SOLE STIFFENERS & INSOLES

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 (3,1 mm)	blue (3,1 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

### GLAS HF & GLAS HF-LIGHT GLASS HF & GLASS HF-LIGHT

The quality Glass HF and Glass HF-light 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 HF (2,3 mm)	Glas HF-light (2,0 mm)
36		663106-36	663107-36
37		663106-37	663107-37
38		663106-38	663107-38
39		663106-39	663107-39
40		663106-40	663107-40
41		663106-41	663107-41
42		663106-42	663107-42
43		663106-43	663107-43
44		663106-44	663107-44
45		663106-45	663107-45
46		663106-46	663107-46
47		663106-47	663107-47
48		663106-48	663107-48

## CARBON KÖPER CARBON TWILL WEAVE

These sole cuttings combine low weight with high stiffness.

- 4 thicknesses (mm), PU 1 pair

Version Shoe size	U2 (1,1 mm)	U4 (2,0 mm)	U4 HF (2,8 mm)	U4 UHF (3,2 mm)	U4 LS (3,6 mm)
36	663007-36	663008-36	663050-36	663051-36	663052-36
37	663007-37	663008-37	663050-37		663052-37
38	663007-38	663008-38	663050-38	663051-38	663052-38
39	663007-39	663008-39	663050-39	663051-39	663052-39
40	663007-40	663008-40	663050-40	663051-40	663052-40
41	663007-41	663008-41	663050-41	663051-41	663052-41
42	663007-42	663008-42	663050-42	663051-42	663052-42
43	663007-43	663008-43	663050-43	663051-43	663052-43
44	663007-44	663008-44	663050-44	663051-44	663052-44
45	663007-45	663008-45	663050-45	663051-45	663052-45
46	663007-46	663008-46	663050-46	663051-46	663052-46
47	663007-47	663008-47	663050-47	663051-47	663052-47
48	663007-48	663008-48	663050-48	663051-48	663052-48



## 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



## BKF CS SOLE STIFFENER pre-moulded as insole

The BKF sole stiffeners are also available as pre-moulded version. They are long-sole 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 (3,1 mm)	blue (3,1 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 HF & GLAS HF-Light GLASS HF & GLASS HF-Light**

Glass HF is suitable for stable and well-priced sole stiffeners.

- 2 thicknesses (mm), PU 1 pair

Shoe size	Version	Glas HF (3,0 mm)	Glas HF-light (2,0 mm)
36		663016-36	663017-36
37		663016-37	663017-37
38		663016-38	663017-38
39		663016-39	663017-39
40		663016-40	663017-40
41		663016-41	663017-41
42		663016-42	663017-42
43		663016-43	663017-43
44		663016-44	663017-44
45		663016-45	663017-45
46		663016-46	663017-46
47		663016-47	663017-47
48		663016-48	663017-48

**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 (2,0 mm)	U4 HF (2,8 mm)	U4 UHF (3,42 mm)
Shoe size				
36		663018-36	663060-36	663061-36
37		663018-37	663060-37	663061-37
38		663018-38	663060-38	663061-38
39		663018-39	663060-39	663061-39
40		663018-40	663060-40	663061-40
41		663018-41	663060-41	663061-41
42		663018-42	663060-42	663061-42
43		663018-43	663060-43	663061-43
44		663018-44	663060-44	663061-44
45		663018-45	663060-45	663061-45
46		663018-46	663060-46	663061-46
47		663018-47	663060-47	663061-47
48		663018-48	663060-48	663061-48



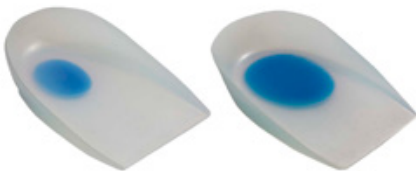


**SILIKON-FERSENPOLSTER** **SILICONE HEEL CUSHION**

Heel cushion made of silicone.

- suitable for male and female
- odourless and washable
- soft and shape-retentive
- PU 1 pair

Size		
S	34 - 37	69522
M	38 - 40	69524
L	41 - 45	69526



**SILIKON-FERSENSPORNPOLSTER** **SILICONE HEEL SPUR CUSHION**

Heel cushion made of silicone in case of heel spur complaints. Cushions the pain area effectively and provides pain relief.

- 2 different positionings of the heel spur cushion
- PU 1 pair

Size	Notch	asymmetrisch	symmetrisch
S	34 - 37	69532	69512
M	38 - 40	69534	69514
L	41 - 45	69536	69516







## SOLE STRUCTURE, BEDDING AND COVER MATERIALS



Orthopädie Kunststoffe . orthopedic plastics | since 1962

## 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/m<sup>3</sup>
- hardness: approx. 35 Shore A
- thermoforming temperature: 130-160 °C
- sheet dimension: approx. 600 x 940 mm = 0.56 m<sup>2</sup>

#### 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/m<sup>3</sup>
- hardness: approx. 20 Shore A
- thermoforming temperature: 130-160 °C
- sheet dimension: approx. 600 x 940 mm = 0.56 m<sup>2</sup>

### Thickness

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

## 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/m<sup>3</sup>
- hardness: approx. 50 Shore A
- sheet dimension: approx. 600 x 1100 mm = 0.66 m<sup>2</sup>

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

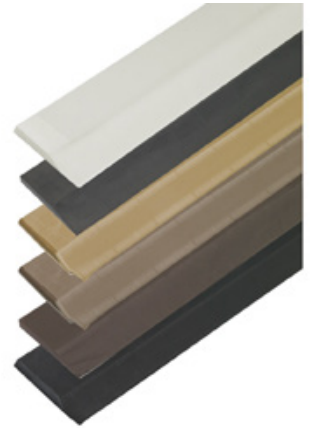
**LEICHTPORO Keilstreifen** **LEICHTPORO wedge strip**

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

**ORTHOZELL LIGHT** **ORTHOZELL LIGHT**

Particularly rigid, stiff and dimensionally stable EVA light cellular sheets. The lift sheets are suitable for rocker bottom soles and elevation of edges.

- closed cell structure
- smooth
- hardness: approx. 58 Shore A
- thermoforming temperature: 120-170 °C
- density: approx. 35 kg/m<sup>2</sup>
- colour: beige
- sheet dimension: approx. 860 x 550 mm = 0.47 m<sup>2</sup>

**Thickness**

3 mm	67023
4 mm	67024
6 mm	67026
8 mm	67028

**NORA LUNASOFT SLW** **NORA LUNASOFT SLW**

EVA expanded sheet with smooth surface, ideal for use as padding and absorbing material, elastic caps, soft sockets.

- thermoforming temperature: 110 - 130 °C
- density: approx. 200 kg/m<sup>3</sup>
- hardness: 30 Shore A
- sheet dimension: 900 x 650 mm = 0.59 m<sup>2</sup>

Thickness	Colour	skin	white
3 mm		52303	52323
4 mm		52304	52324
5 mm		52305	52325
6 mm		52306	52326
8 mm		52308	52328





## NORA LUNASOFT SL **NORA LUNASOFT SL**

EVA expanded sheet with smooth surface, ideal for beddings, sports insoles, soft sockets and much more.

- thermoforming temperature: 110 - 130 °C

- density: approx. 200 kg/m<sup>3</sup>

- hardness: 40 Shore A

- sheet dimension: 890 x 640 mm = 0.57 m<sup>2</sup>

Thickness	Colour	skin	white
3 mm		52403	52423
4 mm		52404	52424
5 mm		52405	52425
6 mm		52406	52426
8 mm		52408	52428



## NORA LUNASOFT AL **NORA LUNASOFT AL**

Lunasoft AL, EVA expanded sheet as stabilising shaping element for insoles with smooth surface.

- thermoforming temperature: 120 - 170 °C

- density: approx. 260 kg/m<sup>3</sup>

- hardness: 52 Shore A

- sheet dimension: 920 x 560 mm = 0.51 m<sup>2</sup>

Thickness	Colour	black	white
6 mm		52536	52546
8 mm		52538	52548



## 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 m<sup>2</sup>

Thickness	
1 mm	51101
1,5 mm	51115
2 mm	51120

## COVER MATERIALS

Cover fabrics and materials are an important component for the final product.

### ORTHOZELL ED ORTHOZELL ED

EVA material with high tear strength and wear resistance and outstanding resilience.

- can be used as build-up and covering material, midsole material and much more
- thermoforming temperature: approx. 120 °C
- colour: blue
- thickness: 1 mm
- density: approx. 350 kg/m<sup>3</sup>
- hardness: approx. 60 Shore A
- sheet dimension: approx. 450 x 900 mm = 0.4 m<sup>2</sup>

#### Thickness

1 mm	67711
------	-------



### DIALIKE DIALIKE

Padding material with laminated cover fabric, suitable as covering material for insoles, padding in orthoses, among others.

- extraordinary tensile resistance
- not thermoplastically formable
- open cell structure
- thickness: 3.8 mm
- dimension: 1 m<sup>2</sup>

#### Quantity

1 m <sup>2</sup>	53610-1
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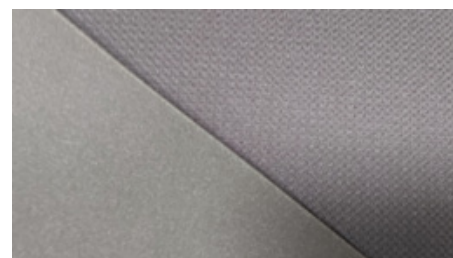
### SKINPOLSTER SKINPOLSTER

EVA with ratio of rubber, with laminated Skinlife for insoles and paddings for orthoses.

- high resilience
- bonded without solvent
- highest wear resistance category
- antibacterial
- breathable
- colour: black
- hardness: approx. 18 - 20 Shore A
- sheet dimension: 750 x 1000 mm = 0.75 m<sup>2</sup>

#### Thickness

2 mm	665020
3 mm	665030







## CELLSUPERSOFT **CELLSUPERSOFT**

EVA material with laminated Skinlife, particularly suitable as covering material for insoles and paddings.

- can be easily draped
- bonded without solvent
- highest wear resistance category
- antibacterial
- breathable
- colour: orange / black
- hardness: approx. 25 - 30 Shore A
- sheet dimension: 750 x 1000 mm = 0.75 m<sup>2</sup>

### Thickness

3 mm	665035
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## DECKSOHLENSTOFF **INSOLE COVER FABRIC**

Non-woven fabric with a rough surface to cover insoles etc.

- sweat-resistant and washable
- colour: beige
- thickness: 0.5 mm
- width: 150 cm



### Quantity **0,5**

1 m <sup>2</sup>	53050-1
5 m <sup>2</sup>	53050-5
45 m <sup>2</sup>	53050-45

## NORA COMPOSITE SHEETS

Nora Lunatec Combi sheets are a vulcanised combination of established Nora qualities. Permanently joined...

### NORA LUNATEC COMBI NORA LUNATEC COMBI

Nora Lunatec Combi are EVA expanded sheets in different combinations.

- no adhering necessary
- thermoforming temperature: 120 - 130 °C

#### Version

Nora Lunatec combi 1	52601
Nora Lunatec combi 2	52602
Nora Lunatec combi 3	52603
Nora Lunatec combi 4	52604



Please note our available technical information for all NORA composite sheets offered.

## 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/m<sup>3</sup>
- hardness: 16-22° Shore A
- sheet dimension: 250 x 500 mm = 0.125 m<sup>2</sup>

#### 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/m<sup>3</sup>
- hardness: 27-33° Shore A

**Thickness**

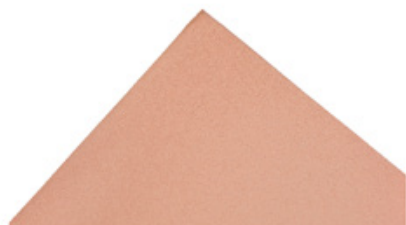
1 mm	50301
2 mm	50302
3 mm	50303
4 mm	50304
5 mm	50305
6 mm	50306

- sheet dimension: 250 x 500 mm = 0.125 m<sup>2</sup>

**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 m<sup>2</sup>

**Thickness**

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

**LATEX STANDARD weiß** **LATEX FOAM STANDARD white**

Padding material made of latex. Easy to adhere and grindable.

- open-cell structure
- not thermoplastically formable
- breathable
- very soft and pressure-compensating
- limited resilience and tear resistance
- weight: 150 kg/m<sup>3</sup>
- sheet dimension: 1 m<sup>2</sup>

**Thickness**

3 mm	49003-1
4 mm	49001-1
5 mm	49005-1
6 mm	49006-1
8 mm	49008-1

**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/m<sup>3</sup>
- hardness: 15-17° Shore A
- thermoforming temperature: approx. 160 °C
- colour: skin-colour, also available in white on request
- sheet dimension: 1 m<sup>2</sup>

**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/m<sup>3</sup>
- hardness: 30-32° Shore A
- thermoforming temperature: 110-130 °C
- colour: skin-colour, also available in white
- sheet dimension: 1.2 m<sup>2</sup>

### Thickness

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

## NORA PADDING MATERIAL

For more than 70 years, NORA has been a specialist for EVA sheet material. BEIL offers a range of the most important products for works in orthopaedics and shoe orthopaedics. Further thicknesses / colours on request.



## NORA LUNAIRFLEX NORA LUNAIRFLEX

EVA expanded sheet with low density and good resilience.

- for beddings and cushioning sheets for inner shoes and the like
- washable thanks to the closed cell structure
- smooth
- hardness: 22 Shore A
- thermoforming temperature: 110 - 130 °C
- density: approx. 120 kg/m<sup>3</sup>
- sheet dimension: 940 x 700 mm = 0.66 m<sup>2</sup>

Thickness	Colour	blue	skin
3 mm		52113	52103
6 mm		52116	52106
4 mm		52114	

**NORA LUNAIRMED NORA LUNAIRMED**

EVA expanded sheet with low density and good resilience.

- for example, beddings for rheumatics and diabetics and much more
- washable thanks to the closed cell structure
- smooth
- hardness: 16 Shore A
- thermoforming temperature: 110 - 130 °C
- density: approx. 80 kg/m<sup>3</sup>
- sheet dimension: 980 x 640 mm = 0.63 m<sup>2</sup>

Thickness	Colour	skin
3 mm		52003
4 mm		52004
5 mm		52005
6 mm		52006

**NORA LUNALASTIK NORA LUNALASTIK**

EVA expanded sheet with low density and high resilience.

- for example, cushioning support of heel spur and much more
- washable thanks to the closed cell structure
- smooth
- hardness: 25 Shore A
- thermoforming temperature: 110 - 130 °C
- density: approx. 230 kg/m<sup>3</sup>
- sheet dimension: 850 x 610 mm = 0.52 m<sup>2</sup>

Thickness	Colour	blue	skin
3 mm		52213	52203
4 mm		52214	52204
6 mm		52216	52206

**NORA AERO SORB M NORA AERO SORB M**

A light cellular rubber with delayed resilience.

- for diabetes-adapted footbed and the like
- can be disinfected thanks to the closed cell structure
- shock-absorbing
- thermoforming temperature: 110 - 130 °C
- density: approx. 160 kg/m<sup>3</sup>
- sheet dimension: 800 x 550 mm = 0.44 m<sup>2</sup>

Thickness	
3 mm	52703
4 mm	52704





# ADHESIVE TAPES AND OTHER ACCESSORIES



Orthopädie Kunststoffe . orthopedic plastics | since 1962



## 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



#### GEWEBEKLLEBEBAND 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
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## **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
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**KLETTSCHEIBEN 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
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**KEVLAR-SCHERE KEVLAR SHEARS**

Special shears to cut Kevlar fabric.

**Quantity**

1	70303
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### GIPS-SCHERE **PLASTER SHEARS**

Plaster shears in sturdy design.

- 2 springs
- 23 cm
- polished

#### Quantity

1	70307
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### 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
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**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 <sup>2</sup>	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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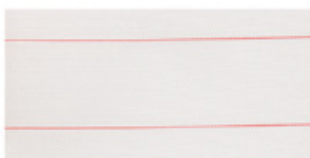
### KOPIERSTIFT INDELIBLE PENCIL

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
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### 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 m<sup>2</sup>

#### Quantity

1 m <sup>2</sup>	34220-1
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**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**

Tin container	81800
Plastic container	81900

**PISTOLENHANDGRIFF für Spraydosen PISTOL GRIP for spray cans**

The practical pistol grip for spray cans.

- for all commercially available spray cans  
- easy handling, labour-saving

**Quantity**

1 Stück	56310
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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
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REINIGUNGSMITTEL W **CLEANSER W**

Organic solvent for varnishes and laminating resins.

Quantity	
1 l	15001







## WORKSHOP EQUIPMENT AND WORK PROTECTION



Orthopädie Kunststoffe . orthopedic plastics | since 1962

## WORKSHOP EQUIPMENT AND WORK PROTECTION



### WOKSHOP EQUIPMENT

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

#### GIEßHARZGERÄT 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
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### ABSAUGSCHLAUCH **SUCTION HOSE**

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

#### Quantity

1 m	70009
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### VAKUUM-ABFORMER **VACUUM MOULDER**

Accessory for an extremely efficient fabrication of a customised, elastic forefoot replacement made of ASTI-TECH®.

#### Quantity

1	70800
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 Please note our available technical and processing information.

**ALU-FÜLLSTOFF ALUMINIUM FILLER**

Filler for the vacuum moulder.

**Quantity**

1 kg	70801
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**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
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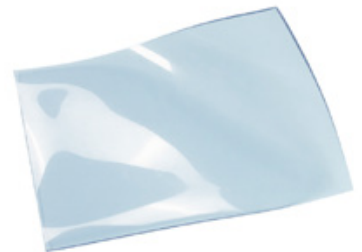
**ZUSCHNEIDEPLATTE CUTTING PLATE**

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
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**VACUMAT VACUMAT**

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

**Quantity**

1	70500
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**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
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## 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 8710E **FILTERING FACEPIECE RESPIRATOR 8710E**

Respirator to protect against particulates, FFP1 (EN 149).

##### Quantity

20	82088
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#### FEINSTAUBMASKE 8822 **FILTERING FACEPIECE RESPIRATOR 8822**

Respirator to protect against particulates with a CPC exhalation valve, FFP2 S (EN 149).

##### Quantity

10	82090
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## FEINSTAUBMASKE 4251 FILTERING FACEPIECE RESPIRATOR 4251

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

### Quantity

1	82092
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## GLOVES

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



## LATEX UNTERSUCHUNGSHANDSCHUHE, gepudert LATEX EXAMINATION GLOVES, powdered

Antiallergic examination gloves with cornstarch powder

- optimum grip
- manufactured according to DIN EN 455 1-4 (medical gloves) and AQL 1.5
- box of 100 units

### Size

S	81554
M	81550
L	81555



## LATEX-HANDSCHUHE, puderfrei LATEX EXAMINATION GLOVES, powder-free

Powder-free latex examination gloves.

- optimum grip
- manufactured according to DIN EN 455 1-4 (medical gloves) and AQL 1.5
- box of 100 units

### Size

M	81551
L	81556

## NITRIL ST PF UNTERSUCHUNGSHANDSCHUHE **NITRIL ST PF EXAMINATION GLOVES**

Non-sterile single-use examination gloves made of synthetic material.

- latex-free
- with rolled edge
- particularly tearproof and safe
- manufactured according to DIN EN 455 1-4 (medical gloves) and AQL 1.5
- box of 50 units

### Size

S	81559
M	81558
L	81557



## BAUMWOLL-SCHUTZHANDSCHUHE **COTTON PROTECTIVE GLOVES**

Long protective gloves with good heat protection.

- length: 45 cm
- PU 1 pair

### Quantity

1	81200
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## KEVLAR-HANDSCHUHE gestrickt **KEVLAR GLOVES knitted**

Thick gloves with good heat protection.

- length: 27 cm
- PU 1 pair

### Size

8	81300
9	81302





**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 1000 SAFETY GOGGLES OX 1000**

Simple and effective eye protection in the orthopaedic workshop.

1	81710
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**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
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- **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 and insoles**
- **Thermoplastic sheet materials**
- **Sole structure, bedding and cover materials**
- **PrePREG**
- **Workshop equipment and protection**
- **Services**



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