

# New Products & Proven Classics





Materials, Components & Solutions

Quality for life



# Explanations of hazardous material symbols

(risk and safety phrases)\*

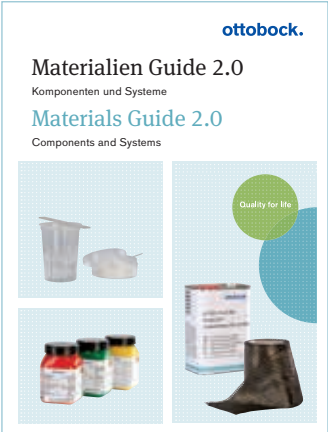
	Hazard classes	Hazard categories
	Inflammable gases	1
	Inflammable aerosols	1, 2
	Inflammable liquids	1, 2, 3
	Inflammable solids	1, 2
	Self-decomposing substances and mixtures	Types B, C, D, E, F
	Pyrophoric liquids	1
	Pyrophoric solids	1
	Substances and mixtures capable of self-heating	1, 2
	Substances and mixtures that release inflammable gases upon contact with water	1, 2, 3
	Organic peroxides	Types B, C, D, E, F
	Oxidising gases	1
	Oxidising liquids	1, 2, 3
	Oxidising solids	1, 2, 3
	Acute toxicity (oral, dermal, inhalative)	4
	Skin irritation	2
	Eye irritation	2
	Skin sensitisation	1
	Specific target organ toxicity (one-time exposure)	3
	Respiratory system irritation	
	Anaesthetic effects	
	Hazardous to water	
	– Acutely hazardous to water	1
	– Chronically hazardous to water	1, 2

\* The hazardous substance symbols printed in the product information correspond to the labelling requirements for hazardous substances at the time of printing. They refer to the raw materials. Changes reserved.

• Please note that the base colours shown in the product information may differ in actual effect.

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- For more products in the materials category, please see our current catalogue “Materials, Components & Solutions” 646K1=GB or our “Materials Guide 2.0” 646A314.
- Up-to-date product information is always available to you on our website [www.ottobock.com](http://www.ottobock.com).

# Materials with Skin Contact

## CE Marking

Medical devices are not permitted to endanger the health of users or third parties at any time. In addition, the risks generally associated with their use always have to be justifiable compared to the benefits. This is why medical devices are subject to the provisions of the MPG (Medical Products Law), and certain safety criteria must be met to bring them into circulation. This is confirmed by the visible CE marking. Ottobock declares with sole responsibility that all medical devices that are manufactured by Ottobock and bear the CE marking conform with the basic requirements of Council Directive 93/42/EEC of 14 June 1993 on medical devices.

## Material Compatibility

The EN ISO 10993 standard applies for the assessment of the biological compatibility of medical devices. The standard classifies medical devices according to the type and duration of intended body contact and identifies biological risks which must be evaluated according to the respective category of the product in question.

The purpose of the biological assessment is to determine whether physiological hazards are expected from the medical device or its materials as a result of contact with the patient. Accordingly, the tests pursuant to EN ISO 10993 Part 5 (Cytotoxicity) and EN ISO 10993 Part 10 (Irritation and Sensitisation) are relevant for Ottobock materials with skin contact.



## Cytotoxicity Test (EN ISO 10993 Part 5)

The cytotoxicity test is recognised and required as a biological base test for all medical devices and their materials. The use of cell cultures, makes it possible to provide evidence of any toxic effect to cells, that arise from substances dissolving out of the material during the intended use. Solids are extracted with culture media or other suitable solvents; these solids are then used in the examination.

The cytotoxicity test offers indications of the biological compatibility of materials used to manufacture medical devices. Relevant Ottobock materials have successfully passed this test; therefore, no cytotoxicity effect is expected. The biological compatibility of the relevant Ottobock materials is confirmed in accordance with Directive EN ISO 10993 Part 5 or by equivalent data.



## Irritation and Sensitisation Test (EN ISO 10993 Part 10)

The most common test method is the patch test. The patch test is a provocation test used to determine if there is a contact allergy. In this test, the test specimens or extracts are applied exclusively to the skin. As a rule, the test substances are applied to a test patch that has been especially prepared and is applied "on the skin" (=epicutaneous) in the upper back region of the patient. The patch is then left on for 48 hours before it is removed. 15 to 30 minutes after the patch is removed, the doctor examines the area of skin for possible changes (reddening, swelling); this examination is repeated after two to three days and possibly again later. The patch test is indicative of the biological compatibility of materials for the production of medical devices. Relevant Ottobock materials have successfully passed this test, so that skin irritation or allergic sensitisation are not expected. The biological compatibility of the relevant Ottobock materials is confirmed in accordance with Directive EN ISO 10993 Part 10 or by equivalent data.

# Hazardous Substances

## Your Needs

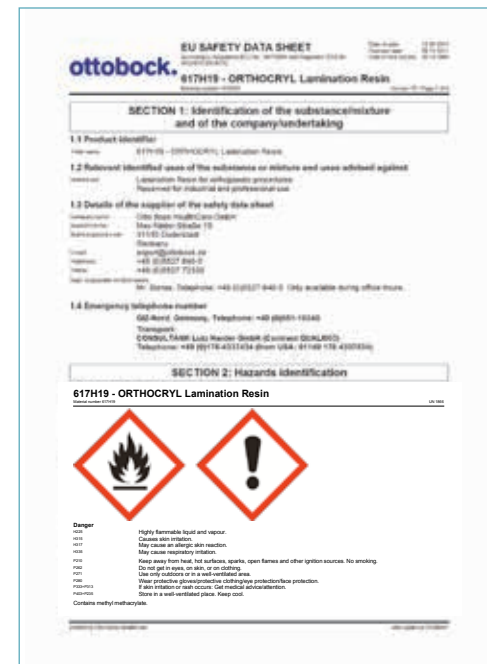
The first and most important step in the safe use of chemicals is to be aware of their identity, the associated risks to health and the environment and the means to control these risks. This inherently complex knowledge must be organised so that essential information on hazards and the corresponding protective measures can be identified and communicated to the user in a readily comprehensible manner.

## The Ottobock Solution

As a global player, we obligate ourselves to safeguard and protect the health of people and the environment in which we work. With us, you will make safety, environmental protection and health integral parts of the production, sale and use of our products. Ottobock hazardous substances are accompanied by safety data sheets (SDS). These safety data sheets contain information such as physical data, health risks, first aid measures, storage, disposal and protective equipment. Ottobock can provide you with safety data sheets for all hazardous substances in your language and country-specific version.

## Advantages for You

We offer you absolute reliability, safety and guaranteed availability. Electronically provided safety data sheets comply with the right-to-know provisions for immediate access to risk information around the clock. Make use of the most up-to-date database of safety data sheets on our website, which we update regularly for you. We are also able to provide you with the safety data sheets on CD-ROM (article number 646C16). The advantage of the CD-ROM is that you can prepare chemical or product-specific general instructions for use and utilise them in your orthopaedics workshop.



# New Products

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# 699G19/699G20/699G21 Biplatrix® Quick Plaster Bandage



## Areas of Application

- For taking a plaster cast

## Benefits

- Consists of a cotton substrate coated with a special natural plaster blend
- Latex-free
- Very easy moulding
- Minimised dipping losses
- Easy to process
- Ensures high final strength, even with few layers
- Also available as 699G21 Longuette for individual cutting

## Processing

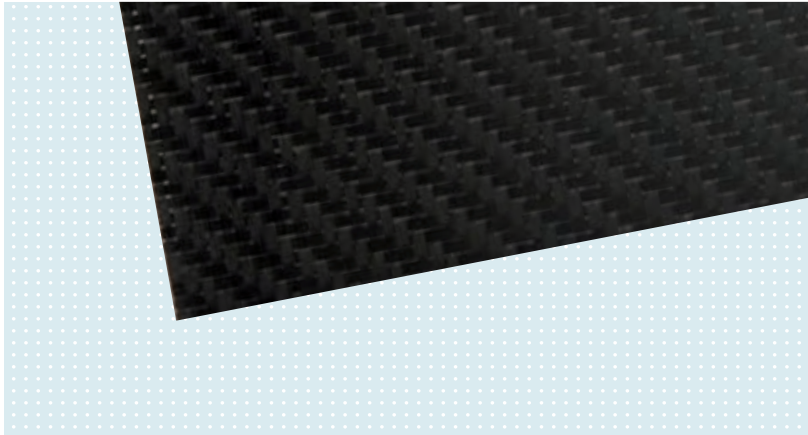
- Dipping water temperature: 20 °C to 25 °C (68 °F to 77 °F)
- Working time: approx. 2 minutes
- Load bearing capacity: partial load after 30 minutes, full load after 48 hours

Order example				
Reference number	=	Length	x	Width
699G19	=	2	x	6
<b>Reference number</b>	<b>699G19</b>			
<b>Length</b>	2 m			
<b>Width</b>	6 cm, 8 cm, 10 cm, 12 cm, 15 cm			
<b>Order by</b>	Package of 20 (sealed @ 2 bandages)			
<b>Reference number</b>	<b>699G20</b>			
<b>Length</b>	3 m			
<b>Width</b>	8 cm, 10 cm, 12 cm, 15 cm, 20 cm			
<b>Order by</b>	Package of 10 or 20 (sealed @ 2 bandages)			
<b>Reference number</b>	<b>699G21</b>			
<b>Length</b>	25 m			
<b>Width</b>	10 cm, 12 cm, 15 cm, 20 cm			
<b>Order by</b>	Package of 1 (4 layers)			

Biplatrix® is a registered trademark of BSN medical.

# 617R15=5

## TP.C Carbon Fibre Woven



### Areas of Application

- For high-strength, very thin orthoses based on thermoplastic materials

### Benefits

- Matrix: TPU
- Can be thermoformed under pressure
- High tensile strength
- Suitable for surfaces
- Paintable
- Potentially adhesive
- Can be welded with components of the same matrix
- Clean processing
- No special storage requirements (e.g. no cooling)

### Processing

- Moderate temperature recommendation:  
approx. 220 °C / 428 °F

<b>Article number</b>	<b>617R15=5</b>
<b>Thickness</b>	approx. 0.25 mm
<b>Area per package</b>	5.16 m <sup>2</sup>
<b>Package</b>	12 sheets á 1.000 mm x 430 mm per sheet
<b>Fibre weight per unit area</b>	200 g/m <sup>2</sup>
<b>Fibre content</b>	60% by weight
<b>Resin content</b>	40% by weight
<b>Bond type</b>	Twill 2/2

# 616T111

## ThermoLyn supra soft plus Silicone

EVA with silicone



### Areas of Application

- For fabricating highly flexible inner sockets for the thigh

### Benefits

- EVA with silicone
- Very high flexibility
- Facilitates the fabrication of more comfortable socket rims
- High surface quality
- Comfortable to wear
- Good grinding characteristics
- Washable

### Processing

- Temperature recommendation: 150 °C / 302 °F (convection oven, infrared oven)

Article number	616T111=9	616T111=12	616T111=800x800x12
Length	400 mm	400 mm	800 mm
Width	400 mm	400 mm	800 mm
Thickness	9 mm	12 mm	12 mm
Colour	natural-coloured	natural-coloured	natural-coloured

Available information materials:

Article no.	Description
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics
646D733=EN	Product Information ThermoLyn for flexible diagnostic and definitive sockets

# 616T112/616T113

## ThermoLyn supra flexible

EVA



Order example						
Reference number	=	Thickness		-	Colour	
616T112=	=	2		-	4.1	

Order example						
Reference number	=	400	x	400	x	Thickness
616T112=	=	400	x	400	x	6

Reference number	<b>616T112=*</b>					
Length	1000 mm		1000 mm		400 mm	
Width	1000 mm		1000 mm		400 mm	
Thickness	2 mm, 4 mm		2 mm, 3 mm, 4 mm, 5 mm		6 mm, 9 mm, 12 mm, 15 mm	
Colour	transparent (99), white (6), black (7), blue (5), light blue (5.3), dark blue translucent (5.5), red (2), light red translucent (2.4), bordeaux (2.5), green (3), neon pink (12.1), neon yellow (4.1), neon green (3.4), gold (17), silver (16)		skin coloured (0)		skin coloured	

Reference number	<b>616T113=*</b>					
Length	5000 mm		5000 mm		5000 mm	
Width	1000 mm		1000 mm		1000 mm	
Thickness	1.5 mm, 2 mm, 3 mm, 4 mm		5 mm		3 mm, 4 mm, 5 mm	
Colour	transparent (99)		transparent (99), black (7)		skin coloured (0)	

### Areas of Application

- For fabricating of shoe-insoles
- For fabricating of flexible diagnostic/definitive sockets for foot prostheses
- For fabricating of flexible diagnostic sockets for lower and upper limb prostheses
- For fabricating of water-resistant splints and supports
- For fabricating of flaps and closures for orthoses
- For flexible prim designs for orthoses

### Benefits

- Permanently elastic
- Dimensionally stable
- High friction
- More comfortable socket edge design
- Comfortable to wear
- Large choice of colours
- Washable
- Subsequent welding possible
- Can be bonded to itself when heated

### Temperature recommendation

- 100-130 °C / 212-266 °F (heating plate)
- 80-100 °C / 175-212 °F (infrared oven)
- 100-120 °C / 212-248 °F (convection oven)

Available information materials:

Article no.	Description
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics
646D733=EN	Product Information ThermoLyn for flexible diagnostic and definitive sockets



99 Transparent



2.4 Light Red Translucent



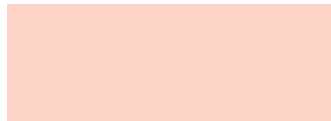
16 Silver



6 White



2.5 Bordeaux



0 Skin coloured



7 Black



3 Green



5 Blue



12.1 Neon Pink



5.3 Light Blue



4.1 Neon Yellow



5.5 Dark Blue Translucent



3.4 Neon Green



2 Red



17 Gold



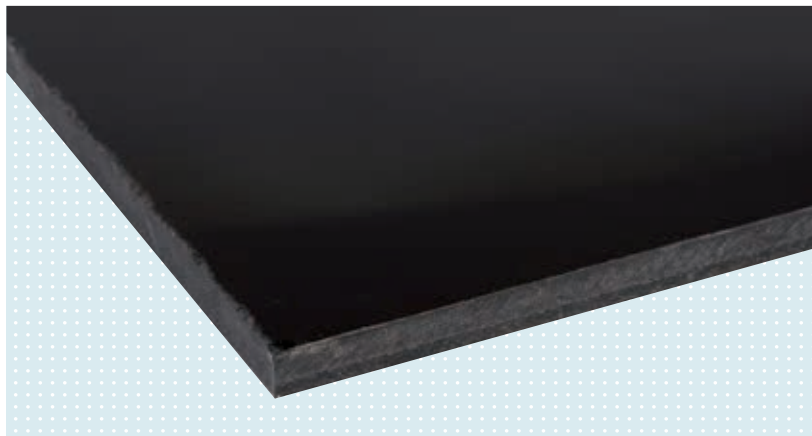
### Practical recommendation

- For use on smooth, dry and porous plaster casts (87G2)
- Use a brush to apply a thin layer of Araform Parting Agent (84A4=12) on the plaster cast, then polish
- Short transfer distance from oven to model
- Do not use talcum powder
- While heating it in the oven, use a clean and smooth parting film as underlay
- While later welding of lamination discs, reinforcement bars, etc. leave model under vacuum to guarantee dimensional stability
- While welding the material, avoid inclusions of air

# 616T690

## ThermoLyn soft, black

PE-C



### Areas of Application

- Suitable for fabricating flexible inner prosthetic sockets in lower limb prosthetics
- Sheet size of 1225x1225 mm is particularly well suited for the fabrication of HD sockets

### Benefits

- High flexibility
- Low density for especially low weight
- High tensile strength
- Odour-neutral
- High surface quality
- Can be subsequently thermoformed
- Comfortable to wear
- Washable

### Processing

- Temperature recommendation: 130 °C / 266 °F (convection oven, infrared oven)

Order example				
<b>Reference number</b>	=	<b>Length</b>	x	<b>Thickness</b>
616T690	=	400	x	8

<b>Reference number</b>	<b>616T690</b>	<b>616T690</b>
<b>Length</b>	400 mm	1225 mm
<b>Width</b>	400 mm	1225 mm
<b>Thickness</b>	8 mm, 10 mm, 12 mm, 15 mm	8 mm, 10 mm, 12 mm, 15 mm
<b>Colour</b>	black	black

Available information materials:

<b>Article no.</b>	<b>Description</b>
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics

# 617H255

## C-Orthocryl SKINGUARD



### Practical recommendation

- Casting carbon on carbon, no filter layers are required
- For sheet casting, use only 616F4 PVA Sheeting or 99B81 PVA Bags
- 642K13 Filling Set is available for containers 25 kg and over.



### Areas of Application

- Lamination resin for carbon fibre technology

### Benefits

- Antibacterial effect
- Facilitates fabricating components with a low proportion of resin
- Optimum ratio of matrix to reinforcing materials

	Resin 100	:	Hardener 2-3	:	Resin Colour Paste 3
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Danger



Article number	617H255=0.900	617H255=4.600	617H255=25
Net contents	0.9 kg	4.6 kg	25 kg

Available information materials:

Article no.	Description
646F351=EN	Poster Lamination Resins
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials
646D453=EN	Product Information Reinforcement fabrics

# 617H119

## Orthocryl Lamination Resin 80:20 PRO



### Practical recommendation

- For sheet casting, use only 616F4 PVA Sheeting or 99B81 PVA Bags
- 642K13 Filling Set is available for containers 25 kg.
- In order to ensure that all air bubbles are eliminated from the reinforcement, the following has to be observed:
  - Make sure that the plaster model is under a constant vacuum from the outset.
  - Cast the resin all at once, and not gradually, which is done with conventional resins.

### Areas of Application

- Lamination resin for the fabrication of components with a low proportion of resin

### Benefits

- Low viscosity with the same mechanical characteristics as 617H19
- Better penetration of the reinforcement
- Rapid evacuation of air from the reinforcement
- The air that is pushed out and subsequently rises can escape from the resin during lamination and is not locked into the resin. This increases the quality and stability of the end result
- Hardener/colour pastes are easier to mix

	Resin 100	:	Hardener 2-3	:	Resin Colour Paste 3
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Danger

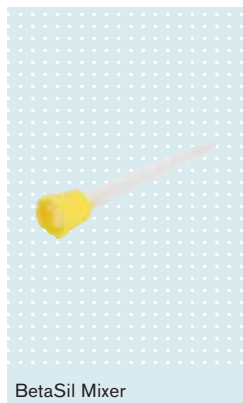
<b>Article number</b>	<b>617H119=0.900</b>	<b>617H119=4.600</b>	<b>617H119=25</b>
<b>Net contents</b>	0.9 kg	4.6 kg	25 kg

Available information materials:

<b>Article no.</b>	<b>Description</b>
646F351=EN	Poster Lamination Resins
646D718=EN	Product Information 617H119 Orthocryl Lamination Resin 80:20 PRO
646D453=EN	Product Information Reinforcement fabrics



# 616S5/616S6 BetaSil Kit



BetaSil Mixer



BetaSil Cartridges

## Areas of Application

- For customising a standard liner made of silicone (616S5=1: 1 spray gun, 15 mixers, 3 cartridges)
- For fabricating silicone pads (616S5=2: 1 spray gun, 20 mixers, 5 cartridges)
- Bonds with other silicones (85H11 Pastasil or 85P31 Chlorosil) and adheres to other synthetic materials, provided these have a rough surface

## Benefits

- 2-component silicone
- Ready to use
- Clean processing regardless of environment
- Curing time is about 5 minutes so that sufficient processing time remains even on elaborate casts
- Static mixer tubes under article number 756Y75 are also available individually



Article number	616S5=1	616S5=2
Consisting of	1 spray gun, 15 mixers, 3 cartridges	1 spray gun, 20 mixers, 5 cartridges

Refill Pack: BetaSil		
Article number	616S6=1	616S6=2
Consisting of	1 carton of 15 mixers, 3 cartridges	1 carton of 20 mixers, 5 cartridges

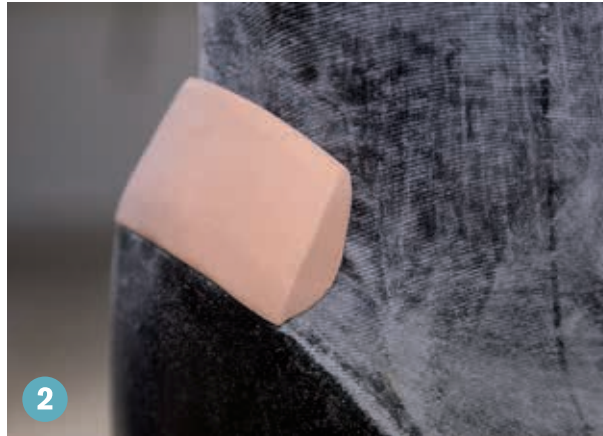
Available information materials:

Article no.	Description
647G637=1	BetaSil Instructions for use to customise a standard silicone liner
647G637=2	BetaSil Instructions for use to fabricate silicone pads
646D717=EN	Folder BetaSil

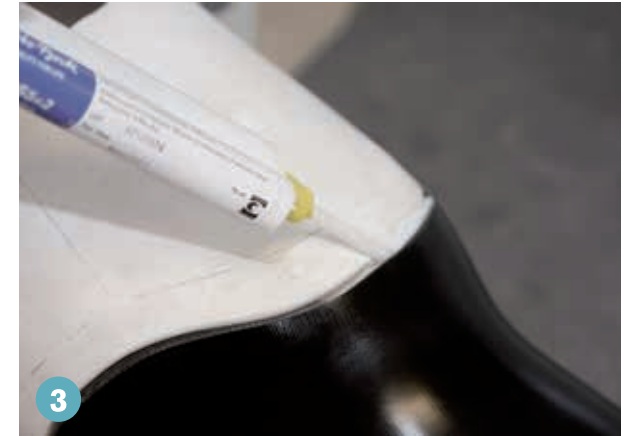
**Processing for 616S5=2**  
**Fabrication of silicone inserts**



**1** Reinforce the socket in the usual manner, recess only the required area and strengthen with 616G26=150 Polyester Spacer Fabric, then laminate.



**2** Apply a dummy made of 85H11 Pastasil in the intended position. After curing, cut to size, sand and roughen from the outside. Also roughen the casting and clean with 634A58 Isopropyl Alcohol. Place the Pastasil dummy, reinforce in the usual manner and then over-laminate.



**3** Remove the Pastasil dummy, cut free the recess and sand the socket edge. Position the socket on the plaster model or duplicating foam. Fill the resulting pocket with 616S5 BetaSil from the distal side to the proximal side, thereby introducing the static mixer into the pocket at the beginning all the way to the lower end of the pocket. After vulcanisation of the BetaSil insert, sand it and position it at the intended point in the socket.

## Processing for 616S5=1

### Customising a standard liner made of silicone



**1** Check the fit of the liner on the patient and trim the liner if necessary.



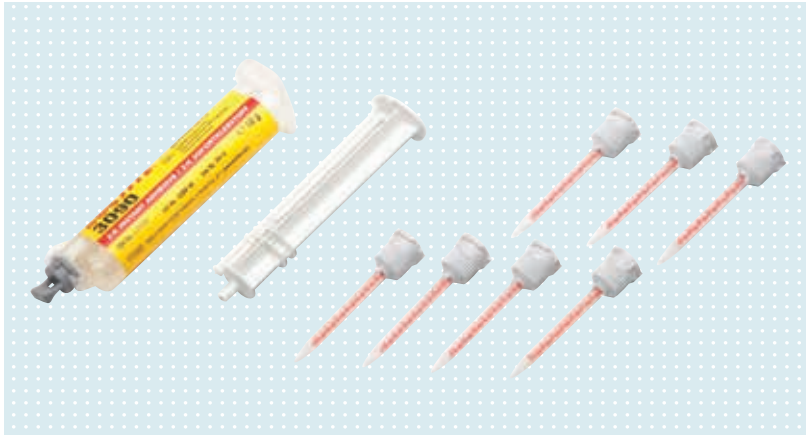
**2** Clean the entire area of the liner where BetaSil will be applied with 634A58 Isopropyl Alcohol. Allow the liner to air dry for at least 5 minutes. Apply the BetaSil to the desired area of skin, e.g. scar tissue.



**3** Skim off the excess material with your finger, pull on the liner and, after 15 to 20 minutes, remove the liner and turn it inside-out.

Trim the BetaSil with scissors or sand it with a sanding sleeve.

# 636K44 Loctite® 3090



Warning

## Areas of Application

- For various applications
- Outstanding adhesive properties on many different materials (e.g. metal, PVC, ABS, PC, PBT, rubber, wood, paper, cardboard, leather and textiles)
- To fill large gaps up to 5 mm

## Benefits

- Innovative two-component technology
- Activator permits maximum control of the setting speed so that setting does not depend on the temperature, humidity, etc.
- High adhesive strength
- Quick curing
- Viscosity is a gel consistency and therefore thixotropic
- Faster, simpler and more effective work
- Practical syringe packaging for precise and clean application
- Static mixers ensure a controlled mixing ratio

## Processing

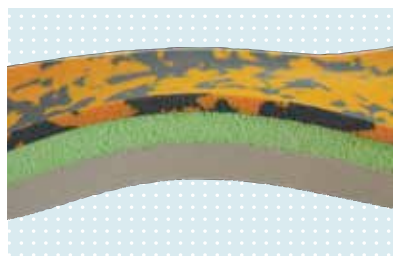
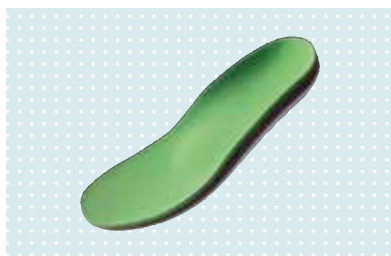
- Processing time 90 – 180 sec.
- Functional strength 2 – 4 min.
- Initial strength 3 – 5 min.
- Final strength 24 h
- Temperature stability  $-20\text{ °C}$  to  $+80\text{ °C}$  /  $-4\text{ °F}$  to  $+176\text{ °F}$  (short-term up to  $100\text{ °C}$  /  $212\text{ °F}$ )
- Discard the first 2–3 drops from the mixer
- Hold the joined components in position until they are secured
- The adhesive develops intense heat briefly while setting

<b>Article number</b>	<b>636K44</b>
<b>Net contents</b>	10 g
<b>Packaging</b>	1 cartridge, 1 plunger, 7 static mixers
<b>Colour</b>	Clear (after setting: clear/slightly cloudy)

Loctite® is a registered trademark of Loctite.

# 617S173

## Nora<sup>®</sup> Aero sorb, soft



### Areas of Application

- Particularly recommended for butterfly rolls, heel and forefoot padding
- Foot bed adapted for diabetic patients
- Heel spur recess with heel spur insoles

### Benefits

- Light cellular rubber, closed-cell
- Hardness approx. Shore A 8; Shore A zero 22
- Density approx. 150 kg/m<sup>3</sup>
- Delayed resilience
- Good thermoforming properties
- Good adhesive characteristics
- Good sanding characteristics
- Washable
- Hygienic, can be disinfected
- Bedding and damping properties; point pressure relief
- Shock absorbent

### Processing

- Temperature recommendation: 110 °C - 130 °C / 230 °F - 266 °F (hotplate, convection oven)

Order example			
<b>Reference number</b>	=	<b>Thickness</b>	- <b>Colour</b>
617S173	=	2	- 3
<hr/>			
<b>Reference number</b>	<b>617S173</b>		
<b>Length</b>	820 mm		
<b>Width</b>	580 mm		
<b>Thickness</b>	2 mm, 3 mm, 4 mm, 6 mm, 8 mm		
<b>Colour</b>	green (3)		

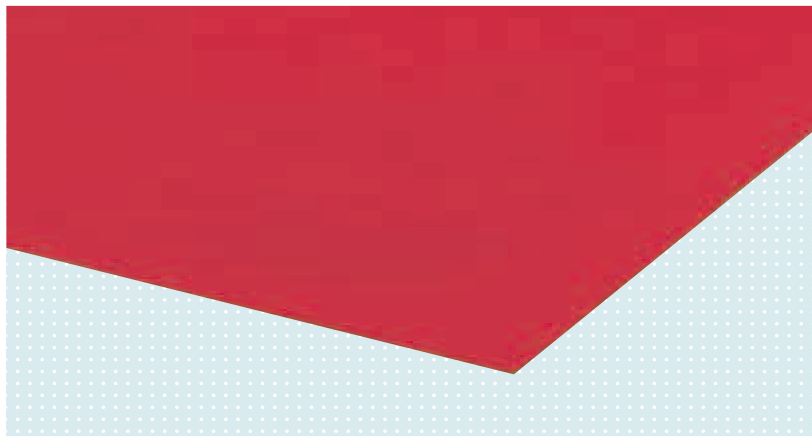
Available information materials:

Article no.	Description
646F295=GB	Poster Padding Materials

Nora<sup>®</sup> is a registered trademark of Freudenberg.

# 617S174

## Nora<sup>®</sup> Aero sorb, medium



### Areas of Application

- Particularly recommended for butterfly rolls, heel and forefoot padding
- Foot bed adapted for diabetic patients
- Heel spur recess with heel spur insoles

### Benefits

- Light cellular rubber, closed-cell
- Hardness approx. Shore A 12; Shore A zero 26
- Density approx. 160 kg/m<sup>3</sup>
- Delayed resilience
- Good thermoforming properties
- Good adhesive characteristics
- Good sanding characteristics
- Washable
- Hygienic, can be disinfected
- Bedding and damping properties; point pressure relief
- Shock absorbent

### Processing

- Temperature recommendation: 110 °C - 130 °C / 230 °F - 266 °F (hotplate, convection oven)

Order example			
<b>Reference number</b>	=	<b>Thickness</b>	- <b>Colour</b>
617S174	=	2	- 2
<hr/>			
<b>Reference number</b>	<b>617S174</b>		
<b>Length</b>	800 mm		
<b>Width</b>	550 mm		
<b>Thickness</b>	2 mm, 3 mm, 4 mm, 6 mm, 8 mm		
<b>Colour</b>	red (2)		

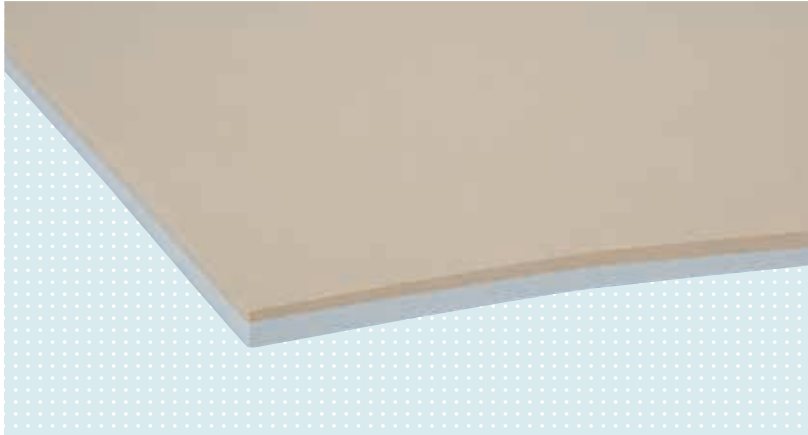
Available information materials:

<b>Article no.</b>	<b>Description</b>
646F295=GB	Poster: Padding Materials

Nora<sup>®</sup> is a registered trademark of Freudenberg.

# 617S133=7

## Nora® Lunatec Combi 7



### Areas of Application

- For inserts and soft sockets

### Benefits

- EVA copolymer, closed-cell
- Hardness approx. shore A 30 (skin-coloured)
- Hardness approx. shore A 40 (grey)
- One-step processing
- No gluing required and no displacement of the different materials during processing
- High retention of volume because the material is only compressed where needed and no vacuum forming is required
- Good padding characteristics
- Good thermoforming properties
- Good adhesive and sanding characteristics
- Washable

### Processing

- Temperature recommendation:  
130 °C - 150 °C / 266 °F - 302 °F  
(convection oven)

<b>Article number</b>	<b>617S133=7</b>
<b>Length</b>	1150 mm
<b>Width</b>	800 mm
<b>Thickness</b>	7 mm
<b>Colour</b>	skin coloured / grey

Available information materials:

Article no.	Description
646F295=GB	Poster: Padding Materials

Nora® is a registered trademark of Freudenberg.

# 623P\*

## Ottobock Collection Thermopapers



### Practical recommendation

- Warm the thermoplastic sheet material until it becomes completely transparent. Cut the thermopaper to size and apply it, with the design facing down, onto the precut component; carefully smooth the thermopaper from the middle towards the outside edges. After approx. 20 seconds, pull the thermopaper off the material.

### Areas of Application

- For individually dyeing themoplastics such as ThermoLyn PE 200, ThermoLyn PP-C and ThermoLyn PP-H

### Benefits

- Extensive choice of designs
- No additional workshop equipment or special technical knowledge required
- Environmentally friendly paper

Order example		
Reference number	=	Length
623P50=	=	5

Reference number	623P*=2	623P*=5	623P*=10
Length	2 m	5 m	10 m
Width	750 mm	750 mm	750 mm

Colour	
	Modern Jeans (623P84), Faces (623P85), Camouflage Earth (623P86), Raindrops (623P87), Concrete (623P88), Carbon, raspberry red (623P89), Carbon, black (623P74), Carbon, water blue (623P90), Carbon, sand (623P107), Kaleidoscope, black red (623P92), Kaleidoscope, black white (623P93), Muscles, white black (623P94), Uni black (623P95), Uni skin-colour (623P96), Bears, red blue yellow (623P97), On the road (623P98), Bears, green purple orange (623P99), Bears, blue green grey (623P100), Butterflies (623P101), Fox (623P106), Mandala, to colour it yourself (623P103), Giraffes, light green (623P50), Starry sky, blue (623P52), Mega Jeans (623P61), Mini Jeans (623P62), Stars, pink (623P60)

Available information materials:

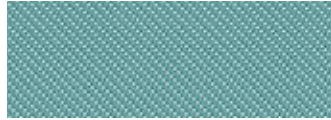
Article no.	Description
646D696=EN	Product Information for Finishing
646D550=EN	Product Information Ottobock Collection Thermopapers and Socket Decors
646M70	Design Sample Folder Thermopapers and Socket Decors
623P200	Thermopaper Sample Roll



## Designs



623P84 Modern Jeans



623P90 Carbon, water blue



623P97 Bears, red blue yellow



623P50 Giraffes, light green



623P85 Faces



623P107 Carbon, sand



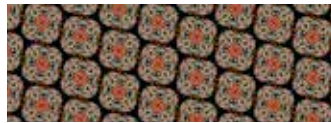
623P98 On the road



623P52 Starry sky, blue



623P86 Camouflage Earth



623P92 Kaleidoscope, black red



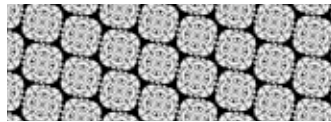
623P99 Bears, green purple orange



623P62 Mini Jeans



623P87 Raindrops



623P93 Kaleidoscope, black white



623P100 Bears, blue green grey



623P61 Mega Jeans



623P88 Concrete



623P94 Muscles, white black



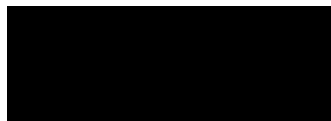
623P101 Butterflies



623P60 Stars, pink



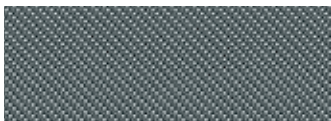
623P89 Carbon, raspberry red



623P95 Uni black



623P106 Fox



623P74 Carbon, black



623P96 Uni skin-colour



623P103 Mandala, colour it yourself

## Processing



# 623S\*

## Ottobock Collection Socket Decors



### Practical recommendation

- In order to laminate socket decors, they may be sewn up and used as the first and/or last layer of the laminate like a stockinette, with the design facing the visible side.

### Areas of Application

- For individual dyeing with lamination technique

### Benefits

- Extensive choice of designs
- No additional workshop equipment or special technical knowledge required

Order example		
<b>Reference number</b>	=	<b>Width</b>
623S50=	=	15

Reference number	623S*=15	623S*=20
<b>Length</b>	1.5 m	1.5 m
<b>Width</b>	150 mm	200 mm

Colour	
	Modern Jeans (623S84), Faces (623S85), Camouflage Earth (623S86), Raindrops (623S87), Concrete (623S88), Carbon, raspberry red (623S89), Carbon, black (623S74), Carbon, water blue (623S90), Carbon, sand (623S107), Kaleidoscope, black red (623S92), Kaleidoscope, black white (623S93), Muscles, white black (623S94), Uni black (623S95), Uni skin-colour (623S96), Bears, red blue yellow (623S97), On the road (623S98), Bears, green purple orange (623S99), Bears, blue green grey (623S100), Butterflies (623S101), Fox (623S106), Mandala, to colour it yourself (623S103), Giraffes, light green (623S50), Starry sky, blue (623S52), Mega Jeans (623S61), Mini Jeans (623S62), Stars, pink (623S60), Ottobock, light blue (623S81), Ottobock, green (623S82), Ottobock, yellow (623S83)

Available information materials:

Article no.	Description
646D696=EN	Product Information for Finishing
646D550=EN	Product Information Ottobock Collection Thermopapers and Socket Decors
646M70	Design Sample Folder Thermopapers and Socket Decors
623S200	Socket Decor Sample Roll

## Designs



623S84 Modern Jeans



623S85 Faces



623S86 Camouflage Earth



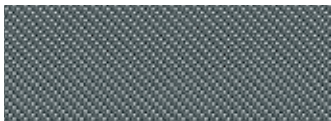
623S87 Raindrops



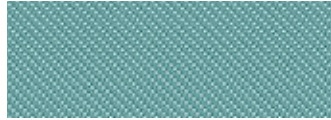
623S88 Concrete



623S89 Carbon, raspberry red



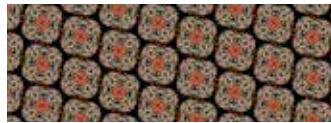
623S74 Carbon, black



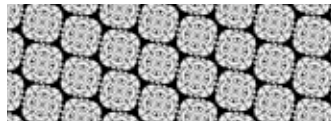
623S90 Carbon, water blue



623S107 Carbon, sand



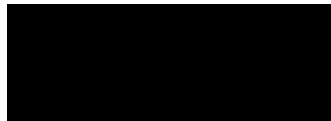
623S92 Kaleidoscope, black red



623S93 Kaleidoscope, black white



623S94 Muscles, white black



623S95 Uni black



623S96 Uni skin-colour



623S97 Bears, red blue yellow



623S98 On the road



623S99 Bears, green purple orange



623S100 Bears, blue green grey



623S101 Butterflies



623S106 Fox



623S103 Mandala, colour it yourself



623S50 Giraffes, light green



623S52 Starry sky, blue



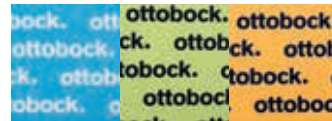
623S62 Mini Jeans



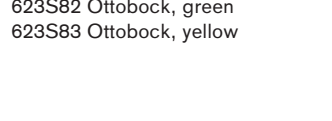
623S61 Mega Jeans



623S60 Stars, pink



623S81 Ottobock, light blue



623S82 Ottobock, green  
623S83 Ottobock, yellow

## Processing



# 616G120/616G180 CarbonTEX

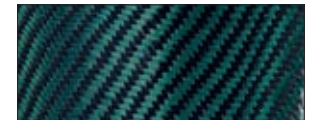


## Practical recommendation

- Can be used with acrylic, epoxy and polyester resin solutions
- Suitable for decorative purposes but not as structural laminate component
- Laminate without colour paste to prevent distortion of the colour result
- Processing: Directly after cutting to size/sanding the socket, apply a transparent acrylic coating to the proximal edge. We recommend applying at least two layers and using wet/dry fine sandpaper between the layers. This approach is particularly well suited for sealing the upper socket edge. The outside appearance of the upgraded socket is also optimised as a result.



2 Red



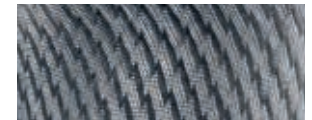
3 Green



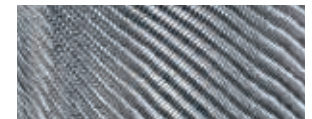
5 Blue



2.4 Light Red



16 Silver



16.4 Light Silver

## Areas of Application

- For individual dyeing with lamination technology

## Benefits

- Good absorption of all Ottobock lamination resins
- Good draping characteristics
- Conventional lamination process
- No additional technical knowledge or workshop facilities required
- Extensive choice of designs

Order example				
Reference number	=	Length	-	Colour
616G120=	=	5	-	16

Reference number	616G120=2-*	616G120=5-*	616G120=10-*
Length	2 m	5 m	10 m
Width	1 m	1 m	1 m
Colour	Red (2), Green (3), Blue (5)		

Reference number	616G180=2-*	616G180=5-*	616G180=10-*
Length	2 m	5 m	10 m
Width	1 m	1 m	1 m
Colour	Light Red (2.4), Silver (16), Light Silver (16.4)		

Available information materials:

Article no.	Description
646D696=EN	Product Information for Finishing
646D718=EN	Product Information 617H119 Orthocryl Lamination Resin 80:20 PRO

## Processing



Sand the surface of the socket being laminated, clean with Isopropyl Alcohol (634A58) and mark the position of the subsequent CarbonTEX seam on the socket with a pencil.

Measure the socket length and circumference. Cut a corresponding piece of CarbonTEX with a width and length that is 10 cm larger than the respective measurement. To prevent the fibres from fraying, tape off the outside of the cut edges.

**1** Apply Spray Adhesive for joints that can be disassembled (636K40) to the socket, starting on the side opposite the marked CarbonTEX seam. Then continue wetting the socket gradually, applying the layer of CarbonTEX around the socket without wrinkles and pressing it into place in the direction of the seam.



**2** Attach one end of the layer of CarbonTEX to the previously marked seam with Double-Sided PVC Adhesive Tape (616F10=6) and trim the excess material with Carbon Scissors (719S21). Then press any protruding fibres in place again. Repeat this procedure on the opposite side. In order to do so, apply a new strip of PVC adhesive tape to the cut edge of the CarbonTEX side. Overlap and attach the second end of the layer of CarbonTEX, trim the excess material and press any protruding fibres in place.



• Chemical protection gloves (641H17), protective eyewear and a breathing mask should be worn for occupational safety reasons. Perform all process steps under an extractor hood.

**3** Clean the soaked PVA Bag (616F4) with paper towel on both sides and pull it over the model with the desired side (matt or gloss). Tie off the PVA bag on the proximal end. Tie off temporarily in the distal region and create a vacuum.

Mix the desired quantity of Orthocryl Lamination Resin 80:20 PRO (617H119), without adding colour paste, with 2% hardener and fill into the bag. Then tie off above the resin filling, without any air inclusions. Orient the model as shown in Figure 3. Undo the temporary tie in the distal area between the resin and socket, and extract rising air bubbles with the vacuum. Then laminate the socket, with the even penetration of resin running at a 90° angle to the socket axis.

After hardening, cut the socket and sand it down.

# 514Z8 SafeLock Buckle



## Areas of Application

- Magnetic closure that engages mechanically for use in orthosis fabrication

## Benefits

- Plastic
- Self-actuating, secure closing through magnetism
- Easy, intuitive opening with one hand by pushing open sideways
- Notch on the reverse side of the closure for straightforward positioning of the closure with a hollow rivet
- Different sizes for strap widths of 20, 30 and 40 mm
- Suitable for hand, shoulder, torso, knee and ankle orthoses depending on the size
- Robust and durable
- High load capacity (minimum 55 kg)

## Application Example



Order example				
Reference number	=	Clear width	-	Colour
514Z8	=	20	-	7

Reference number	514Z8	514Z8	514Z8
Length	46 mm	62 mm	74 mm
Width	22 mm	42 mm	48.4 mm
Height	12 mm	10 mm	10 mm
Colour	black (7)	black (7)	black (7)
Clear width	20 mm	30 mm	40 mm
Order by	1 pc	1 pc	1 pc

# 514Z9 SafeLock Slider



## Areas of Application

- Magnetic closure that engages mechanically for use in orthosis fabrication

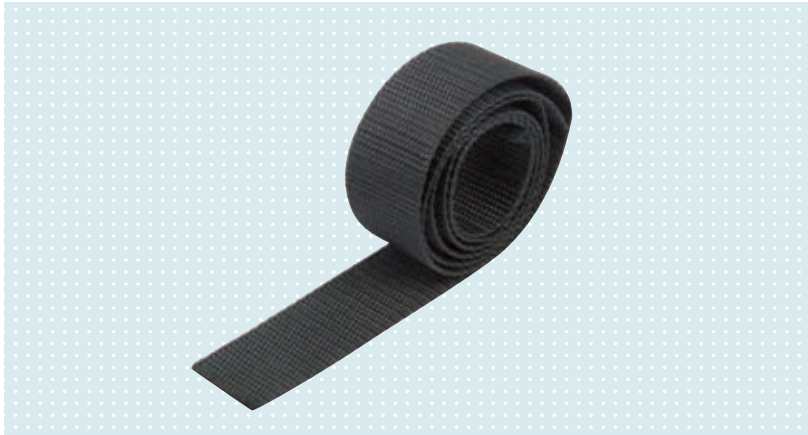
## Benefits

- Plastic
- Self-actuating, secure closing through magnetism
- Easy, intuitive opening with one hand by pushing open sideways
- Suitable for torso, knee and ankle orthoses
- Robust and durable
- High load capacity (minimum 40 kg)

Order example				
<b>Reference number</b>	=	<b>Clear width</b>	-	<b>Colour</b>
514Z9	=	40	-	7

<b>Reference number</b>	<b>514Z9</b>
<b>Length</b>	58 mm
<b>Width</b>	47 mm
<b>Height</b>	15 mm
<b>Colour</b>	black (7)
<b>Clear width</b>	40 mm
<b>Order by</b>	1 pc

# 623H29 Belting



## Areas of Application

- Particularly well suited for 514Z8 SafeLock Buckle and 514Z9 SafeLock Slider



## Benefits

- 100% polypropylene
- Individually adaptable length
- Soft, rounded outer edge
- High strength
- Inelastic

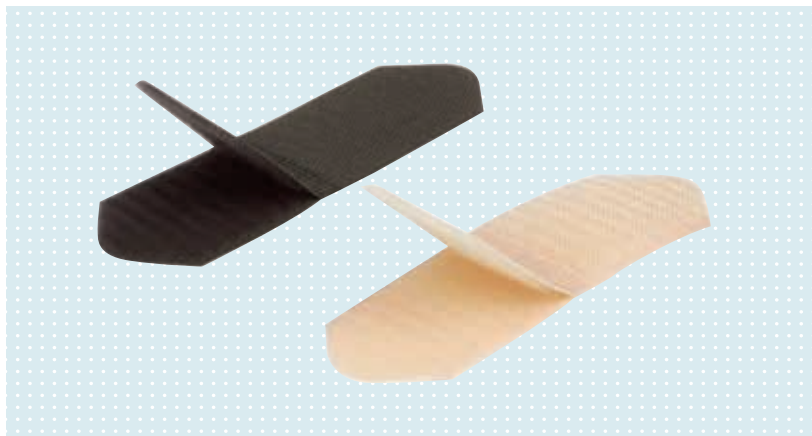
Article number	623H29 =20-7	623H29 =30-7	623H29=40-7
Width	20 mm	30 mm	40 mm
Colour	black	black	black
Order by	1 metre and up	1 metre and up	1 metre and up

Please specify length when ordering.



# 170D29

## Y-Hook-and-Loop with PU Coating



### Practical recommendation

- We recommend using micro hook-and-loop on velour and hook on loop.

### Areas of Application

- For adapting straps, e.g., directly on the patient
- Particularly well suited for 623Z96 Loop-Velour Strap
- For closure types with higher loads, e.g. walking orthoses
- For fast, detachable connections

### Benefits

- Polyester with PU coating
- Micro hook-and-loop/micro hook-and-loop (single side: heavy hook-and-loop)
- Various widths available
- Low bulk with the use of micro hook-and-loop only
- User-friendly design with “Open” embossing
- Easy to clean thanks to PU coating
- Washable with a damp cloth
- Can be refastened many times
- Flexible
- Very comfortable

Order example				
Reference number	=	Width	-	Colour
170D29	=	30	-	0
Reference number	<b>170D29</b>			
Width	30 mm, 38 mm, 50 mm			
Colour	skin coloured (0), black (7)			

# 623Z96

## Loop-Velour Strap



### Practical recommendation

- We recommend using micro hook-and-loop on velour and hook on loop.

### Areas of Application

- Ideal for orthosis straps
- For closure types with higher loads, e.g. walking orthoses
- For fast, detachable connections

### Benefits

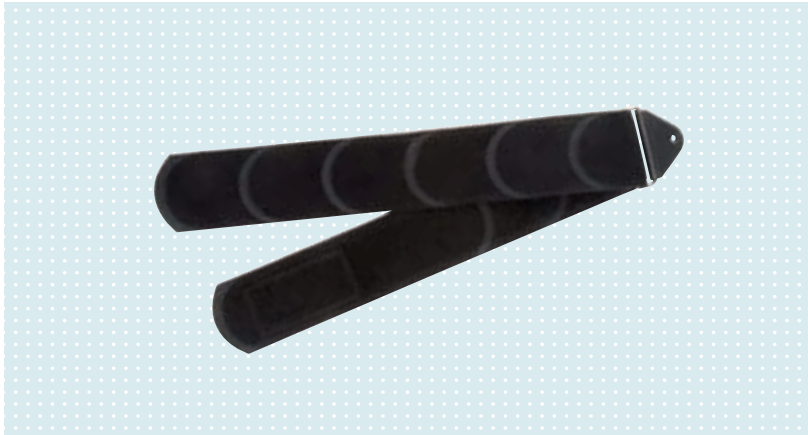
- Woven polyamide bordered in velour
- Various widths and colours available
- Individually adaptable length
- Both sides compatible with hook-and-loop
- Can be refastened many times
- Flexible
- Very comfortable
- Washable at 30 °C/86 °F, gentle cycle

Order example				
<b>Reference number</b>	=	<b>Width</b>	-	<b>Colour</b>
623Z96	=	30	-	0
<b>Reference number</b>	<b>623Z96</b>			
<b>Width</b>	30 mm, 38 mm, 50 mm			
<b>Colour</b>	skin coloured (0), black (7)			
<b>Original roll</b>	25 m			
<b>Order by</b>	1 metre and up			

Please specify length when ordering.

# 21Y78

## Hook-and-Loop Closure with Weld Seams



### Areas of Application

- For fast, detachable connections

### Benefits

- With strap guide loop
- Hook-and-loop strap
- 100% polyamide
- Individually adaptable length due to welding seam
- Can be refastened many times
- High hook-and-loop strength
- Very good inherent stiffness
- Flexible
- Skin-friendly thanks to velour
- Hook-and-loop closure washable at 30 °C/86 °F, gentle cycle

Order example						
Reference number	=	Length	-	Width	-	Colour
21Y78	=	420	-	40	-	7

<b>Reference number</b>	<b>21Y78</b>
<b>Length</b>	420 mm, 650 mm
<b>Width</b>	40 mm, 50 mm
<b>Colour</b>	black (7)

# 21B37 AK Suspension

IMPROVED  
QUALITY



## Areas of Application

- To reduce rotation movements and pistoning in transfemoral prostheses
- For the transfer of force and fixation of the prosthesis on the body
- To improve guiding and control of the prosthesis

## Benefits

- Custom sizes available (depending e.g. on the side, socket edge)
- Intuitive closure on the pelvic strap with hook-and-loop straps and buckles for a custom fit
- High hook-and-loop strength
- The breathable, thin pelvic strap made of polyamide and spandex is very comfortable to wear
- Low weight makes body perception and control possible
- High abrasion resistance of the pelvic belt
- Extra padding for the hip bones
- Secure hold of the prosthesis due to Neopren® adhesive strip at the distal end of the harness
- Latex-free
- Robust and durable
- Good shape retention
- Machine washable at 40 °C/104 °F, gentle cycle

Order example					
<b>Reference number</b>	=	<b>Side</b>	<b>Size</b>		
21B37	=	L	1		
<b>Reference number</b>	<b>21B37</b>				
<b>Side</b>	L/R				
<b>Size</b>	S (1)	M (2)	L (3)	XL (4)	XXL (5)
<b>Hip circumference (cm)</b>	60 – 74	66 – 80	76 – 90	86 – 100	96 – 110
<b>Socket edge</b>	36 – 40	40 – 44	44 – 48	48 – 52	52 – 56
<b>Colour</b>	beige				

# 21B3

## Neopren® AK Suspension



### Areas of Application

- To reduce rotation movements and pistoning in transfemoral prostheses
- For the transfer of force and fixation of the prosthesis on the body
- To improve guiding and control of the prosthesis

### Benefits

- Universal in application for the left and right sides; available in various sizes
- Incl. hook-and-loop-compatible closure for an adjustable fit
- Intuitive closure
- High hook-and-loop strength
- Circular strap around the pelvis made of double laminated Neopren®
- Extra padding for the hip bones
- Secure hold of the prosthesis due to Neopren® adhesive strip at the distal end of the harness
- Latex-free
- Good shape retention
- Machine washable at 40 °C/104 °F, gentle cycle

Article number	21B3=S	21B3=M	21B3=L
Side	L/R		
Size	S	M	L
Hip circumference	60 – 74 cm	66 – 80 cm	76 – 90 cm
Socket edge	36 – 40 cm	40 – 44 cm	44 – 48 cm
Colour	beige		

Neopren® is a registered trademark of DuPont.

# 21B4 BK Suspension

IMPROVED  
QUALITY



## Areas of Application

- To reduce rotation movements and pistoning in transtibial prostheses
- For the transfer of force and fixation of the prosthesis on the body
- To improve guiding and control of the prosthesis

## Benefits

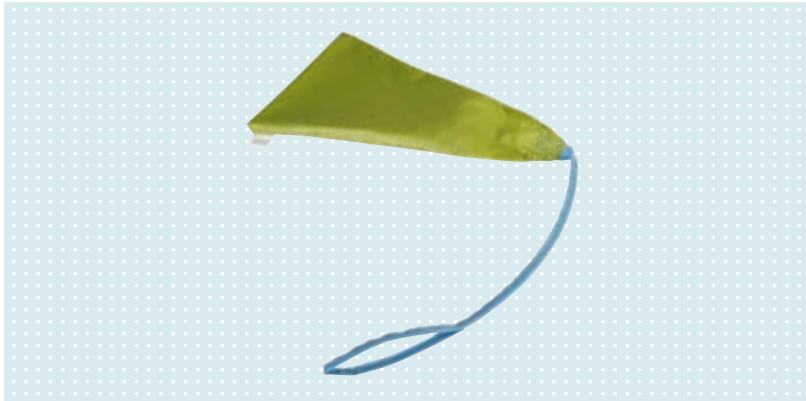
- Universal in application for the left and right sides; available in various sizes
- Loops make it easy to put on the harness with minimal effort
- Incl. hook-and-loop-compatible closure for an adjustable fit
- High hook-and-loop strength
- The breathable, thin strap made of polyamide and spandex is very comfortable to wear
- Low weight makes body perception and control possible
- High abrasion resistance of the strap
- Secure hold of the prosthesis due to Neopren® adhesive strip at the distal end of the harness
- Latex-free
- Robust and durable
- Good shape retention
- Machine washable at 40 °C/104 °F, gentle cycle

Article number	21B4=S	21B4=M	21B4=L	21B4=XL	21B4=XXL
Size	S	M	L	XL	XXL
Knee circumference	28–39 cm	31–46 cm	35–53 cm	38–60 cm	42–66 cm
Socket edge	24–36 cm	28–40 cm	32–46 cm	36–52 cm	40–58 cm
Colour	beige				



# OC1560

## EasyFit Arm Donning Sheath



### Areas of Application

- Enables easy donning of arm prostheses with a valve opening

### Benefits

- Kids' size available
- Easy, time and energy saving donning
- Comfortable feeling when donning
- High-quality, durable material
- Suitable for machine washing
- Foldable and lightweight

Article number	Size	Colour	Limb circumference		Limb length
			proximal	distal	
OC1560=KIDS	KIDS	Green	29 cm	15 cm	21 cm
OC1560=TR	TR		42 cm	22 cm	25 cm
OC1560=TH	TH		47 cm	28 cm	34 cm

Available information materials:

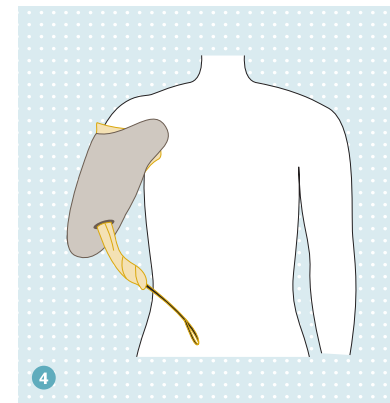
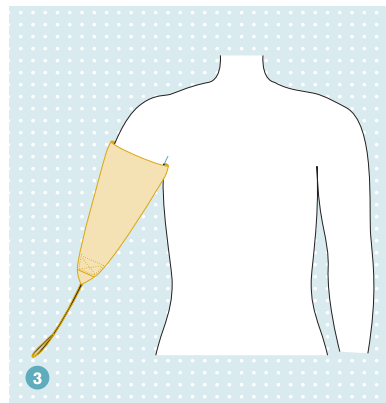
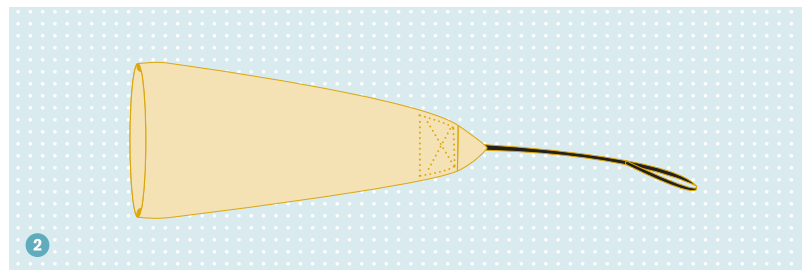
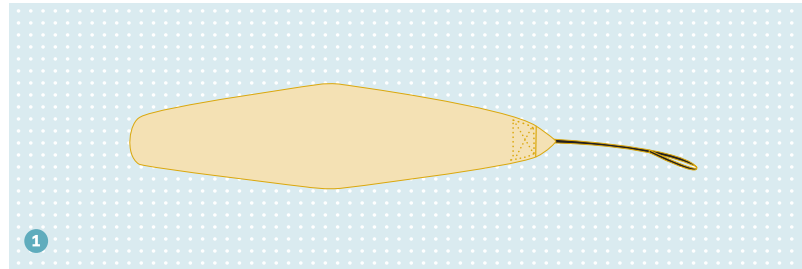
Article no.	Description
646D536=EN	Product Information EasyFit Arm Donning Sheath



## Application

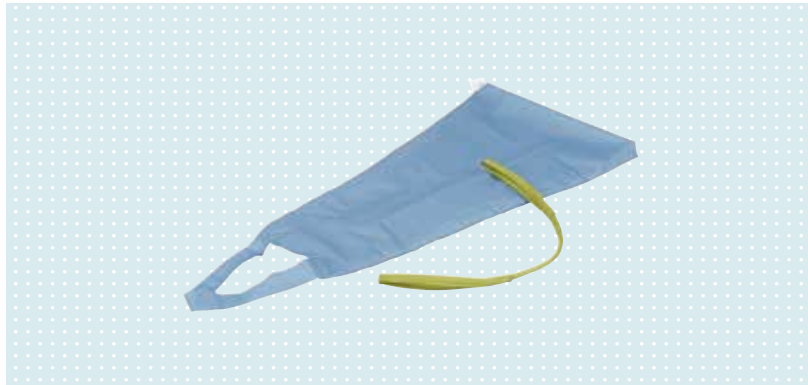
- 1 Before using the EasyFit Arm, fully spread out the Donning Sheath.
- 2 Turn half the length of the EasyFit Arm Donning Sheath into the other half up to the lower seam (loop on the outside).
- 3 Pull the EasyFit Arm Donning Sheath over the residual limb of the arm like a sock, with as few wrinkles as possible. Slide the socket over the residual limb so that the loop of the EasyFit Arm Donning Sheath can be pulled through the valve opening of the socket after donning.
- 4 Slowly pull the EasyFit Arm Donning Sheath through the valve opening of the prosthetic socket by the loop.

If the residual limb is not properly positioned in the prosthetic socket, repeat the process.



# OC1560

## EasyFit Donning Sheath



### Practical recommendation

- Using the EasyFit Donning Sheath in combination with the threadless 21Y14 PushValve exhaust valve makes prosthesis donning even easier.

### Areas of Application

- For transfemoral prostheses with valve opening

### Benefits

- Easy, time and energy saving donning
- Comfortable feeling when donning
- Pull-through aid for additional help
- High-quality, durable material
- Suitable for machine washing
- Lightweight and foldable, includes a sealable bag for easy transportation

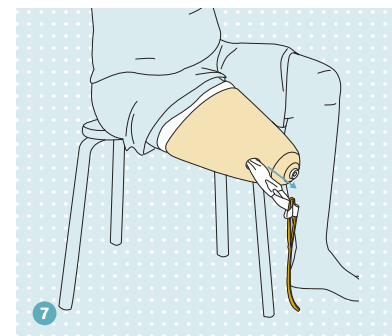
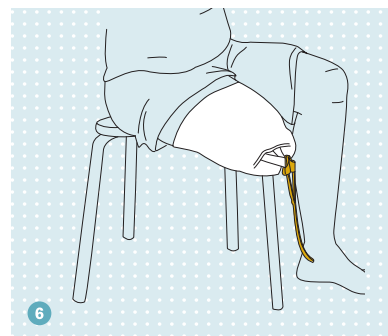
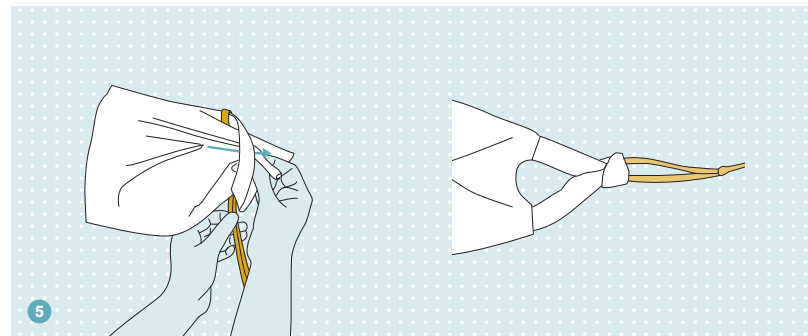
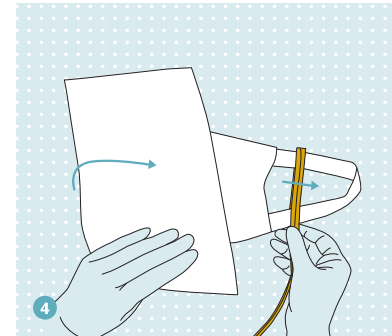
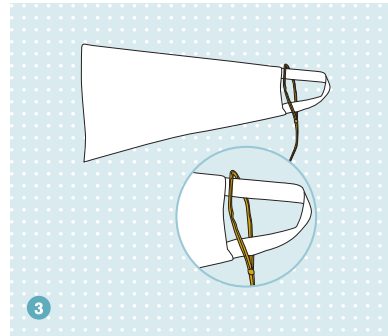
Article number	Size	Colour	Limb circumference		Limb length
			proximal	distal	
<b>OC1560=XS</b>	XS	Blue	39 cm	25 cm	40 cm
<b>OC1560=S</b>	S		43 cm	27 cm	
<b>OC1560=M</b>	M		56 cm	29 cm	43 cm
<b>OC1560=L</b>	L		68 cm	36 cm	
<b>OC1560=XL</b>	XL		78 cm	36 cm	
<b>OC1560=XXL</b>	XXL		80 cm	36 cm	60 cm

Available information materials:

Article no.	Description
646D386=GB	Product Information EasyFit

## Application

- 1 Spread out the EasyFit donning sheath and the included pull-through aid.
- 2 Turn one half of the EasyFit donning sheath into the other half up to the lower seam. The loop should face outwards.
- 3 For additional help, attach the pull-through aid: pull the strap on the donning sheath through the loop on the pull-through aid.
- 4 Pull the top half of the donning sheath through the lower gap between the strap and the loop.
- 5 The pull-through aid and the strap of the donning sheath are now joined to each other.
- 6 Now pull the EasyFit donning sheath with both hands like a sock over the transfemoral residual limb, avoiding any wrinkles. Position the socket over the residual limb so that after getting into the socket the strap of the EasyFit donning sheath or the pull-through aid can be put through the socket's valve hole.
- 7 Finally, use the strap to slowly pull the EasyFit donning sheath out of the prosthetic socket through the valve opening.



# Proven Classics

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# 616T95

## ThermoLyn PE 200

Polyethylene

PROVEN  
CLASSIC



### Areas of Application

- For fabricating orthoses, e.g. TLSOs

### Benefits

- Hard polyethylene
- Low molecular weight
- Good welding characteristics
- Good sanding characteristics
- Low shrinkage
- Can be combined with, for example, 617S7/617S8 Plastazote®
- Can be reinforced using 617R11=PE Thermoprepreg PE
- Easy to dye with Ottobock thermopapers

### Processing

- Temperature recommendation: 180 °C / 356 °F (heating plate), 165 °C / 329 °F (convection oven, infrared oven)

Order example		
<b>Reference number</b>	=	<b>Thickness</b>
616T95	=	2

<b>Reference number</b>	<b>616T95</b>
<b>Length</b>	2000 mm
<b>Width</b>	1000 mm
<b>Thickness</b>	2 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm, 12 mm
<b>Colour</b>	natural-coloured

Available information materials:

Article no.	Description
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials

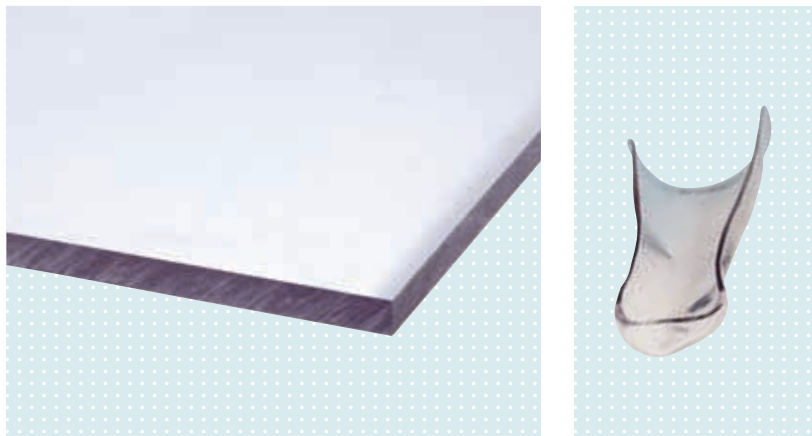
Plastazote® is a registered trademark of Zotefoams.

# 616T83

## ThermoLyn clear

Copolyester

PROVEN  
CLASSIC



### Areas of Application

- For fabricating scar compression masks, trial orthoses and self-supporting check sockets (for temporary use)

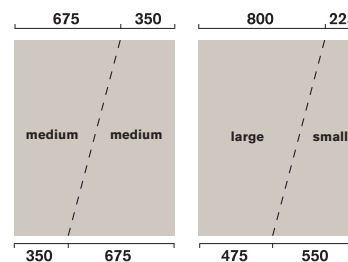
### Benefits

- Transparency of the check socket facilitates precise verification of the fit and skin discolouration on the residual limb
- Good fracture resistance
- Very high impact strength
- High dimensional stability
- Can be overlaminated to secure adapters
- Low shrinkage

### Processing

- Temperature recommendation: 165 °C / 329 °F (heating plate, convection oven, infrared oven)

Cutting suggestion 616T83 ThermoLyn® clear 6 mm (1250 x 1025 mm sheet) for a low amount of waste with trial orthoses (KAFOs):



Available information materials:

Article no.	Description
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials

Order example			
Reference number	=	Thickness	
616T83	=	8	

Reference number	616T83	616T83
For the fabrication of	Trial orthoses	Self-supporting check sockets
Length	400 mm	400 mm
Width	400 mm	400 mm
Thickness	8 mm	10 mm, 12 mm, 15 mm, 20 mm
Colour	clear	clear

Order example						
Reference number	=	Length	x	Width	x	Thickness
616T83	=	1250	x	1025	x	3

Reference number	616T83	616T83
For the fabrication of	scar compression masks	Trial orthoses
Length	1250 mm	1250 mm
Width	1025 mm	1025 mm
Thickness	3 mm, 4 mm	6 mm
Colour	clear	clear

# 616T52

## ThermoLyn rigid

Styrene-butadiene

PROVEN  
CLASSIC



### Practical recommendation

- For working edges we recommend hot air or 634A1 SuperSkin Cleaning Agent

### Areas of Application

- Suitable for the fabrication of self-supporting TT, TF and HD check sockets (for temporary use)

### Benefits

- The proven, classic material for fabricating check sockets!
- Transparency of the check socket facilitates precise verification of the fit and skin discolouration on the residual limb
- High stiffness
- Good fracture resistance
- High thermoplastic dimensional stability
- High resistance to the formation of stress cracks
- Extremely high impact strength
- Can be over-laminated to secure adapters
- Minor shrinkage

### Processing

- Temperature recommendation: 170 °C / 338 °F (convection oven, infrared oven)

Available information materials:

Article no.	Description
646F265=GB	Poster Thermoplastics
646D300=GB	Technical Information Thermoplastics
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials

Reference number	=	Thickness
616T52	=	8

<b>Reference number</b>	<b>616T52</b>
<b>For the fabrication of</b>	self-supporting check sockets (for temporary use)
<b>Length</b>	400 mm
<b>Width</b>	400 mm
<b>Thickness</b>	8 mm, 10 mm, 12 mm, 15 mm
<b>Colour</b>	clear



# 623T3

## Perlon Stockinette, white

PROVEN  
CLASSIC



### Areas of Application

- For fabricating laminates

### Benefits

- Knitted fabric
- Finely meshed
- Good stretching properties
- Good shaping
- Smooth surface after laminating
- Suitable for surfaces



Article number	Length	Width	Weight
623T3=4	45.4 m	4 cm	0.5 kg
623T3=6	27.7 m	6 cm	0.5 kg
623T3=8	20.8 m	8 cm	0.5 kg
623T3=10	37 m	10 cm	1 kg
623T3=12	33.3 m	12 cm	1 kg
623T3=15	27 m	15 cm	1 kg
623T3=20	20 m	20 cm	1 kg
623T3=25	13.5 m	25 cm	1 kg
623T3=30	11.1 m	30 cm	1 kg
623T3=40	8.8 m	40 cm	1 kg

Available information materials:

Article no.	Description
646D453=EN	Product Information Reinforcement fabrics

All Ottobock reinforcement materials are photographed from top to bottom.  
Lengthwise (warp), crosswise (weft)

# 623T9

## Nylglas Stockinette, white

PROVEN  
CLASSIC



### Areas of Application

- For fabricating laminates

### Benefits

- Blend of polyamide (35%) and fibreglass (65%)
- Knitted fabric
- Finely meshed
- High strength
- Low resin absorption combined with high stability



Article number	Length	Width	Weight
623T9=4	36.4 m	4 cm	0.5 kg
623T9=6	31.2 m	6 cm	0.5 kg
623T9=8	35.7 m	8 cm	1 kg
623T9=10	32.2 m	10 cm	1 kg
623T9=12	26.3 m	12 cm	1 kg
623T9=15	23.8 m	15 cm	1 kg
623T9=20	18 m	20 cm	1 kg
623T9=25	15.2 m	25 cm	1 kg
623T9=30	11.6 m	30 cm	1 kg

Available information materials:

Article no.	Description
646D453=EN	Product Information Reinforcement fabrics

All Ottobock reinforcement materials are photographed from top to bottom.  
Lengthwise (warp), crosswise (weft)

# 617H21 Orthocryl Sealing Resin

PROVEN  
CLASSIC



### Practical recommendation

- For sheet casting, use only 616F4 PVA Sheeting or 99B81 PVA Bags
- 642K13 Filling Set is available for containers 25 kg.

### Areas of Application

- For sealing and reinforcing

### Benefits

- High-strength adhesive bonds, e.g. wood, foam
- Combined with filler material for making putties

	Resin 100	:	Hardener 1	:	Resin Colour Paste 3
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Article number	617H21=0.900	617H21=4.600	617H21=25
Net contents	0.9 kg	4.6 kg	25 kg

Available information materials:

Article no.	Description
646F351=EN	Poster Laminations Resins
646D453=EN	Product Information Reinforcement fabrics

# 617H19

## Orthocryl Lamination Resin 80:20

**PROVEN  
CLASSIC**



### Practical recommendation


- For sheet casting, use only 616F4 PVA Sheeting or 99B81 PVA Bags
- 642K13 Filling Set is available for containers 25 kg.

### Areas of Application

- The proven classic material for laminating!

### Benefits

- Optimum ratio 80:20 for making stiff laminates (with 20% 617H17 Orthocryl®, soft)
- Can be combined with all common reinforcing materials in orthopaedics technology

	Resin 100	:	Hardener 3:1	:	Resin Colour Paste 3
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Danger

Article number	617H19=0.900	617H19=4.600	617H19=25
Net contents	0.9 kg	4.6 kg	25 kg

Available information materials:

Article no.	Description
646F351=EN	Poster Laminations Resins
646D453=EN	Product Information Reinforcement fabrics

# 617H55 C-Orthocryl

PROVEN  
CLASSIC



### Practical recommendation

- Casting carbon on carbon, no filter layers are required
- For sheet casting, use only 616F4 PVA Sheeting or 99B81 PVA Bags
- The 642K13 Filling Set is available for containers 25 kg.

### Areas of Application

- Lamination resin for carbon fibre technology

### Benefits

- Facilitates fabricating components with a low proportion of resin
- Optimum ratio of matrix to reinforcing materials

	Resin 100	:	Hardener 2-3	:	Resin Colour Paste 3
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Article number	617H55=0.900	617H55=4.600	617H55=25
Net contents	0.9 kg	4.6 kg	25 kg

Available information materials:

Article no.	Description
646F351=EN	Poster Laminations Resins
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials
646D453=EN	Product Information Reinforcement fabrics

# 99B81 PVA Bags

PROVEN  
CLASSIC



## Areas of Application

- For work with Orthocryl and polyester lamination resins

## Benefits

- Sizes available for all amputation and orthosis types
- Film adapts to contours extremely well
- Easy to weld with the 756E1 Hand Sealing Iron
- Good stretching properties
- High resistance to tearing

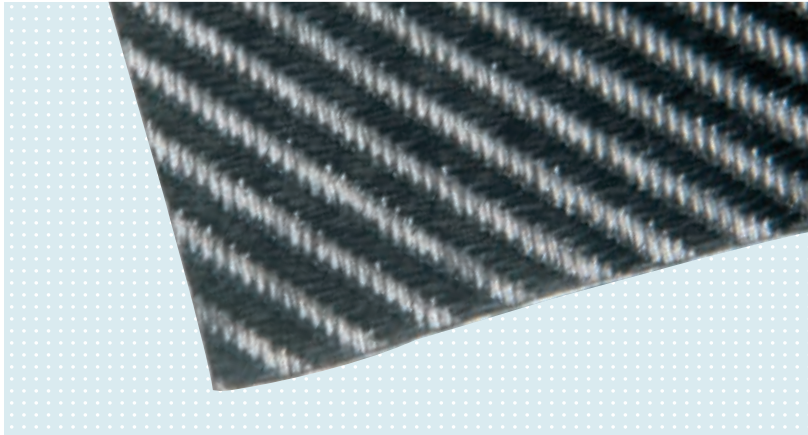
Order example

Reference number	=	Length	x	Width	x	Height
99B81	=	60	x	11	x	4

Reference number	For the fabrication of	Length	Width	Height	Order by
99B81	Arm prostheses	60 cm	11 cm	4 cm	10 pcs.
99B81	Soft inner sockets and transtibial prostheses	70 cm	19 cm	5 cm	10 pcs.
99B81	Transfemoral sleeves/prostheses	70 cm	27 cm	5 cm	10 pcs.
99B81	Transtibial prostheses	100 cm	19 cm	5 cm	10 pcs.
99B81	Transfemoral prostheses	100 cm	26 cm, 30 cm, 36 cm	5 cm	10 pcs.
99B81	Hip disarticulation	120 cm	50 cm	10 cm	10 pcs.
99B81	KAFO	130 cm	19 cm, 22 cm, 26 cm	5 cm	10 pcs.

# 616B10=5 Carbon Fibre Fabric Prepreg

PROVEN  
CLASSIC



## Areas of Application

- Prepreg technology for high-strength and very fine orthotic devices

## Benefits

- Saturated with epoxy
- High tensile and compression strength
- Suitable for surfaces



<b>Article number</b>	<b>616B10=5</b>
<b>Length</b>	<b>5 m</b>
<b>Width</b>	<b>1.27 m</b>
<b>Fibre weight per unit area</b>	<b>283 g/m<sup>2</sup></b>
<b>Weave construction</b>	<b>Twill 4/4</b>
<b>Fibre content</b>	<b>54% by weight</b>
<b>Resin content</b>	<b>46% by weight</b>

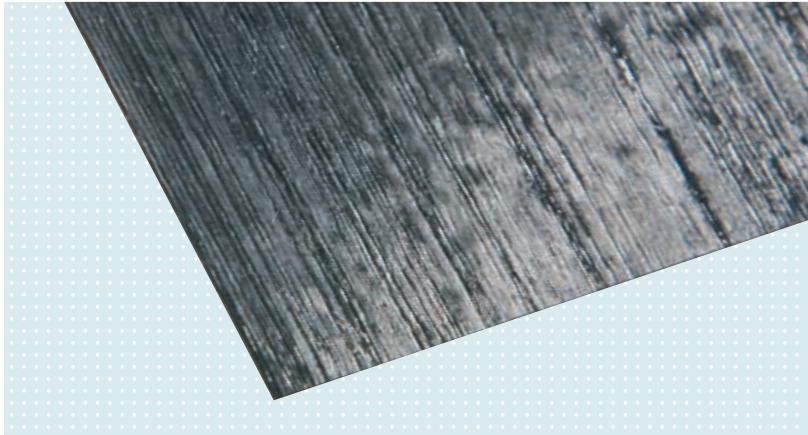
Available information materials:

Article no.	Description
646A174=GB	Product Information Prepreg Technology
646D453=EN	Product Information Reinforcement fabrics

# 616B11=5

## Carbon Fibre Nonwoven Prepreg, unidirectional

PROVEN  
CLASSIC



### Areas of Application

- Prepreg technology for high-strength but very fine orthotic devices

### Benefits

- Saturated with epoxy
- High tensile and compression strength in order to increase flexural stiffness
- Embedding exclusively between the fabrics

<b>Article number</b>	<b>616B11=5</b>
<b>Length</b>	<b>5 m</b>
<b>Width</b>	<b>0.3 m</b>
<b>Fibre weight per unit area</b>	<b>300 g/m<sup>2</sup></b>
<b>Weave construction</b>	<b>UD</b>
<b>Fibre content</b>	<b>60% by weight</b>
<b>Resin content</b>	<b>40% by weight</b>

Available information materials:

<b>Article no.</b>	<b>Description</b>
646A174=GB	Product Information Prepreg Technology
646D453=EN	Product Information Reinforcement fabrics



# 617S3 Pedilin

**PROVEN  
CLASSIC**



## Areas of Application

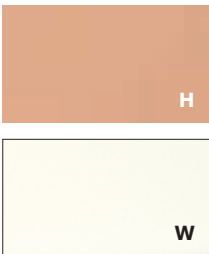
- Highly recommended for fabricating soft inner sockets and as a padding material for prosthetic sockets

## Benefits

- The proven classic material for soft sockets!
- PE foam, closed-cell
- Hardness approx. Shore A 35 (proven Shore hardness for fabricating soft sockets)
- Density approx. 140 kg/m<sup>3</sup>
- High resilience
- Good thermoforming properties
- Good adhesive characteristics
- Good sanding characteristics
- Washable

## Processing

- Temperature recommendation: 130 °C / 266 °F (heating plate, convection oven)



Order example			
<b>Reference number</b>	=	<b>Colour</b>	<b>Thickness</b>
617S3	=	H	2
<b>Reference number</b>	<b>617S3</b>	<b>617S3</b>	
<b>Length</b>	1000 mm	1000 mm	
<b>Width</b>	1000 mm	1000 mm	
<b>Thickness</b>	2 mm, 3 mm, 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm		
<b>Colour</b>	skin-coloured (H)	white (W)	

Available information materials:

Article no.	Description
646F295=GB	Poster Padding Materials
646D695=EN	Folder SKINGUARD Technology
646D119=GB	Product Information SKINGUARD Antibacterial Materials

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