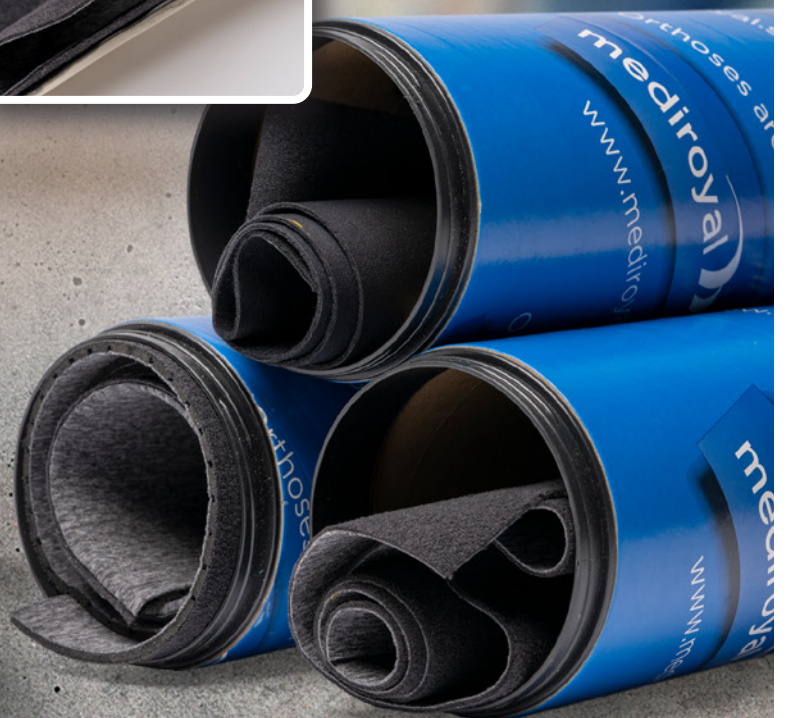
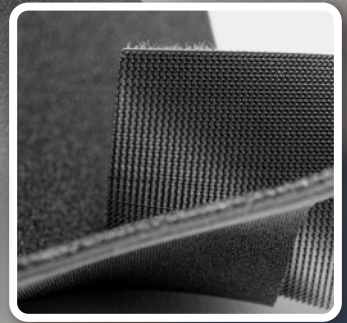




mediroyal 

Orthoses are our passion

# Mediroyal Technical Textiles



# Technical and innovative textiles by Mediroyal

Mediroyal has for many years invested heavily in technical development of materials. This has led to many new materials like Ventus™, Neptune™, ARX® and NRX®. In this brochure we are also introducing our newest innovation; I-ARX® and P-ARX® which is a system for hookless lining in orthoses.

We have now decided to offer our technical quality textiles, used in our products, as raw materials. We manufacture the compositions by ourselves in our ISO9001/14001 certified factory in Taiwan, ROC. In order to simplify handling, transportation and storage we have developed a standardized measurement of the materials with a width of 58 cm and a length of 1 meter. In addition to this we have created a paper tube package that holds each material to make handling and storing in a clinical setting easier but also to protect the material. Most materials can also be ordered as larger sheets or by running meters. Because orthoses are simply our passion!



## Mediroyal Sharkskin Neoprene · 3 mm Sharkskin/Black Nylon

This material is made from 100% CR-foam with 12 degrees density (Type A). The material is laminated with a black nylon jersey on one side and has raw CR-sharkskin on the other side. The material is latex free.


**Suitable for:** This material provides a high elongation and skin grip on the sharkskin side making it suitable for constructions that need to have a good skin gripping function.


Art.no	Thickness	Width	Length
EU490003	3 mm	58 cm	100 cm

The material is also available as a full sheet

Art.no	Thickness	Size
EU490003-S	3 mm*	125 x 318 cm

\* The article is a special order item with longer lead time. Contact customer service for more information and price.

 Material composition:  
99% CR-Foam, 1% Nylon

 Washing instruction:  
Machine washable in 60° C



## Mediroyal Neoprene with OP Loop textile/Black Nylon

This material is made from 100% CR-foam with 12 degrees density (Type A). The material is laminated with an elastic loop fabric on one side and black nylon jersey on the back side. The material is latex free.

**Suitable for:** This material provides a high elongation. The loop fabric makes it possible to make orthotic constructions without having to add a loop part for attachment. Simply cut your application and add a hook strap. Most hook qualities will provide a good grip onto the loop fabric surface. The material can also be used as a lining by applying the EU445060 NRX® Self-adhesive Low profile hook on the inside of the orthotics construction. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490101	1 mm	58 cm	100 cm
EU490103	3 mm	58 cm	100 cm
EU490105	5 mm	58 cm	100 cm

The material is also available as a full sheet:

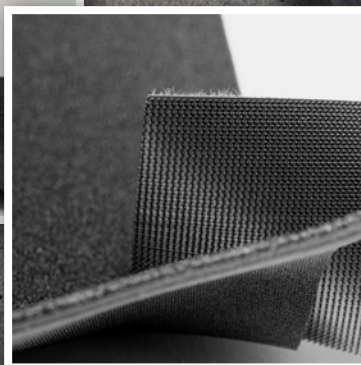
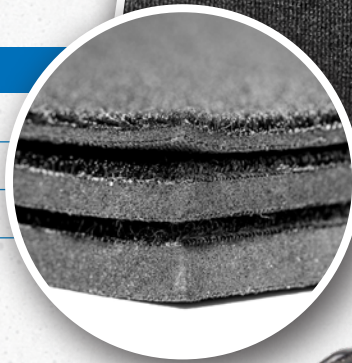
Art.no	Thickness	Size
EU490101-S	1 mm	125 x 318 cm
EU490103-S	3 mm	125 x 318 cm
EU490105-S	5 mm	125 x 318 cm



Material composition:  
97% CR-Foam, 2% Polyamide, 1% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal Neoprene with Black Nylon on both sides

This material is made from 100% CR-foam with 12 degrees density (Type A). The material is laminated with black nylon jersey on both sides. The material is latex free.

**Suitable for:** This material provides a high elongation and is suitable for most orthotics applications. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490201	1 mm	58 cm	100 cm
EU490203	3 mm	58 cm	100 cm
EU490205	5 mm	58 cm	100 cm

The material is also available as a full sheet:

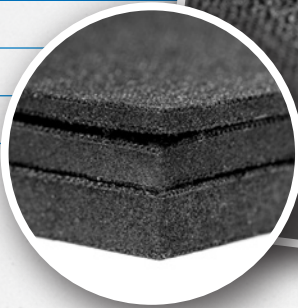
Art.no	Thickness	Size
EU490201-S	1 mm	125 x 318 cm
EU490203-S	3 mm	125 x 318 cm
EU490205-S	5 mm	125 x 318 cm



Material composition:  
98% CR-Foam, 2% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal Neoprene with Royal Blue Nylon/Black Nylon

This material is made from 100% CR-foam with 12 degrees density (Type A). The material is laminated with nylon jersey on both sides. The material is latex free.

**Suitable for:** This material provides a high elongation and is suitable for most orthotics applications. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490301	1 mm	58 cm	100 cm
EU490303	3 mm	58 cm	100 cm
EU490305	5 mm	58 cm	100 cm

The material is also available as a full sheet:

Art.no	Thickness	Size
EU490301-S	1 mm*	125 x 318 cm
EU490303-S	3 mm*	125 x 318 cm
EU490305-S	5 mm*	125 x 318 cm

\* These articles are special order with longer lead time.  
Contact customer service for more information and price.



Material composition:  
98% CR-Foam, 2% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal NRX® Strap Material

This is our popular NRX® Strap material which is made from 100% CR-foam with 12 degrees density (Type A). The material is micro perforated for maximum ventilation. One side has elastic OP loop fabric and the inside has a skin friction surface. The material is latex free.

**Suitable for:** This material provides a high elongation, has a skin friction surface on the inside and is suitable for most orthotics applications where proprioceptive function is needed. The material can be cut without fraying. The material can also be used as a friction lining by applying the EU445060 NRX® Self-adhesive Low profile hook on the inside of the orthotic construction. The material can also be applied on straps to prevent migration.

Art.no	Thickness	Width	Length
EU446601	1 mm	58 cm	100 cm
EU446603	3 mm	58 cm	100 cm

The material is also available as a full sheet:

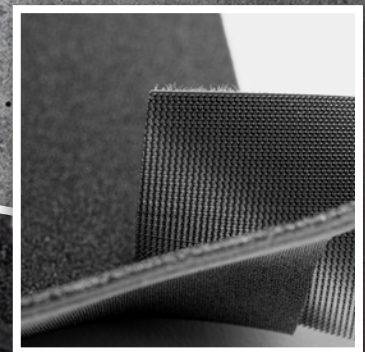
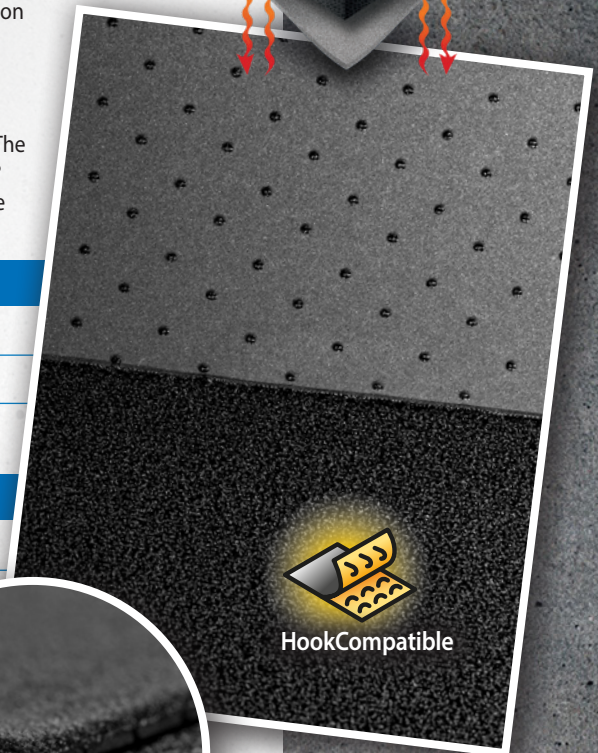
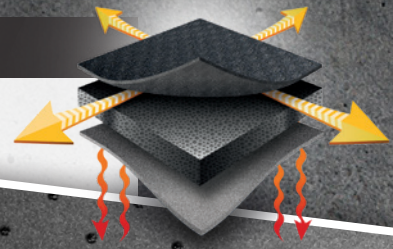
Art.no	Thickness	Size
EU446900	1 mm	125 x 318 cm
EU446603-S	3 mm	125 x 318 cm



Material composition:  
98% CR-Foam, 2% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal NRX® Strap Double

This is our popular NRX® Strap Double material which is made from 100% CR-foam with 12 degrees density (Type A). The core of the material is 1 mm micro perforated foam for maximum ventilation. Elastic OP loop fabric is laminated on both sides. The material is latex free.

**Suitable for:** This material provides a high elongation and a good stability. The material can be cut without fraying and the loop fabric works with most hook qualities.

Art.no	Thickness	Width	Length
EU447602	3 mm	58 cm	100 cm

The material is also available as a full sheet:

Art.no	Thickness	Size
EU447602-S	3 mm*	125 x 318 cm

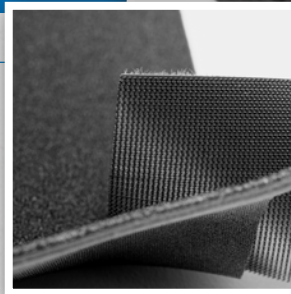
\* This is a special order with longer lead time.  
Contact customer service for more information and price.



Material composition:  
98% CR-Foam, 2% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal NRX® Strap Neptune™ Material

The NRX® Strap Neptune™ fabric has a 1 mm perforated CR-foam core, laminated with low profile hook receivable OP-loop on top side and Neptune™ fabric on the inside. The Neptune™ fabric is hydrodynamic and transports moisture easily and dries quickly.

**Suitable for:** Can be used as a thin padding in most orthotics together with self-adhesive hook. The material has pressure absorption in combination with good ventilation and moisture transportation.

Art.no	Thickness	Width	Length
EU452900	2 mm	58 cm	100 cm



Material composition:  
80% CR-Foam, 10% Polyamide, 10% Nylon



Washing instruction:  
Machine washable in 60° C



## Mediroyal ARX® Spacer Fabric

The ARX® spacer fabric we use in several of our ARX® branded products for knee- and thumb braces. It was developed as a ventilated alternative to neoprene. The material is latex free.

**Suitable for:** The ARX® Spacer fabric can be used for many orthotic applications. The material has a pressure absorbing function in combination with good compression and high ventilation.

Art.no	Thickness	Width	Length
EU490500	4 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490500-M	4 mm*	130 cm

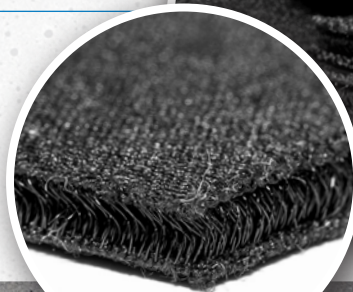
\* The article is a special order item with longer lead time. Contact customer service for more information and price.



Material composition:  
75% Polyester, 20% Polyamide, 5% Spandex



Washing instruction:  
Machine washable in 40° C



## Mediroyal ARX® Spacer Fabric with hook receivable OP Loop

This material is the ARX® spacer fabric laminated with OP-loop textile on the top side, making it hook receptive. It can be used as padding material in orthotics by adding self-adhesive hook on the inside of the device. The material is ventilated, semi-elastic and pressure absorbing.

**Suitable for:** Can be used as a padding in most orthotics together with self-adhesive hook. The material has pressure absorption in combination with good ventilation.

Art.no	Thickness	Width	Length
EU490501	5 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490501-M	5 mm	130 cm



Material composition:  
80% Polyester, 15% Polyamide, 5% Spandex



Washing instruction:  
Machine washable in 40° C



## Mediroyal Ventus™ Material · Black Lycra/Black Fleece

The Ventus™ material is used in our Ventus™ branded wrist braces. It has a Lycra surface that has a breathable TPU membrane with a micro fleece lining on the inside. The Ventus™ material has a high comfort and high breathability. The material is latex free.

**Suitable for:** The Ventus™ material can be used for most orthotic applications where high comfort and breathability is needed. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490400	1,8 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490400-M	1,8 mm*	140 cm

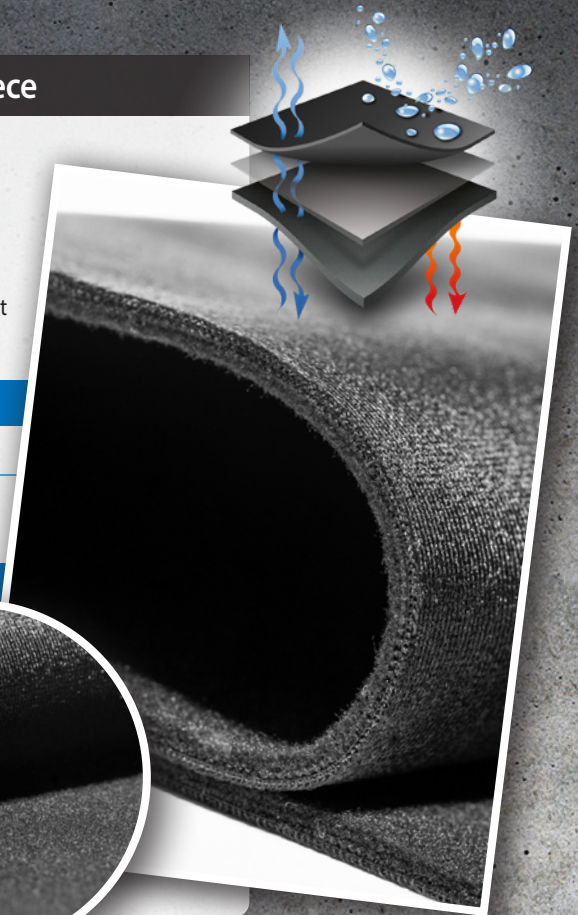
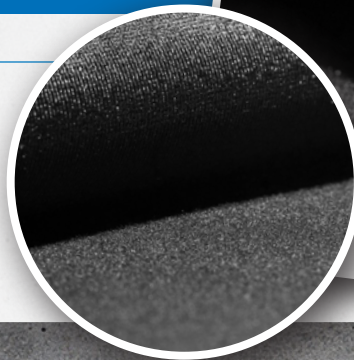
\* The article is a special order item with longer lead time.  
Contact customer service for more information and price.



Material composition:  
50% Polyester, 45% Nylon, 5% TPU



Washing instruction:  
Machine washable in 40° C



## Mediroyal Ventus™ Material · Beige Lycra/Black Fleece

The Ventus™ material is used in our Ventus™ branded wrist braces. It has a Lycra surface that has a breathable TPU membrane with a micro fleece lining on the inside. The Ventus™ material has a high comfort and high breathability. The material is latex free.

**Suitable for:** The Ventus™ material can be used for most orthotic applications where high comfort and breathability is needed. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490401	1,8 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490401-M	1,8 mm*	140 cm

\* The article is a special order item with longer lead time.  
Contact customer service for more information and price.



Material composition:  
50% Polyester, 45% Nylon, 5% TPU



Washing instruction:  
Machine washable in 40° C



## Mediroyal Neptune™ Material with OP Loop/Neptune™ Fabric

The Neptune™ material was developed by Mediroyal 2015. It's a hydrodynamic material that is breathable but also dries quickly. It's used in both our Proxi®, Resto® and Exto® Inter products. The material is latex free.

**Suitable for:** The Neptune™ material can be used for most orthotic applications where high comfort, breathability and quick drying of the material is needed. The material can be cut without fraying. It can also be applied as a lining into orthoses by applying self adhesive hook into the construction.

Art.no	Thickness	Width	Length
EU490403	1,6 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490403-M	1,6 mm*	140 cm

\* The article is a special order item with longer lead time.  
Contact customer service for more information and price.



Material composition:  
Black OP loop fabric/TPU/Neptune™ fabric  
50% Polyester, 45% Nylon, 5% TPU



Washing instruction:  
Machine washable in 40° C



HookCompatible

## Mediroyal Neptune™ Material · Black Lycra/Neptune™ Fabric

The Neptune™ material was developed by Mediroyal 2015. It's a hydrodynamic material that is breathable but also dries quickly. It's used in our Neptune™ wrist braces and Exto® Inter products. The material is latex free.

**Suitable for:** The Neptune™ material can be used for most orthotic applications where high comfort, breathability and quick drying of the material are needed. The material can be cut without fraying.

Art.no	Thickness	Width	Length
EU490404	1,2 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU490404-M	1,2 mm*	140 cm

\* The article is a special order item with longer lead time.  
Contact customer service for more information and price.



Material composition:  
Black Lycra/TPU/Neptune™ fabric  
50% Polyester, 45% Nylon, 5% TPU



Washing instruction:  
Machine washable in 40° C



# I-ARX® & P-ARX®

– *The second generation of orthotic linings*

Mediroyal has developed an orthotic lining system that doesn't require conventional hook and loop for attachment. Instead we are using the same technology as we have in our ARX® Strap which consists of micro fibers that self attach. This makes it possible to laminate or glue the I-ARX® inner liner into the orthotic device and then add the P-ARX® padding. The padding can then easily be removed for washing in 60° machine wash.



## I-ARX® Inner Lining

This inner lining that is made from micro fiber with a PU-film on the back side. This lining is elastic and can be applied inside the orthosis by either lamination, self adhesion from thermoplastics or by contact glue. The P-ARX® padding can be attached onto the I-ARX® inner lining. The material is latex free.

**Suitable for:** Inner lining for orthotics to attach the P-ARX® padding and SRX® material to. Works excellent for insoles, fracture bracing, spinal bracing, knee braces and hand splints.

Art.no	Thickness	Width	Length
EU458101	0,15 mm	58 cm	100 cm

The material is also available as running meter:

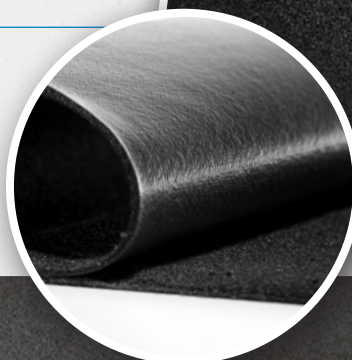
Art.no	Thickness	Width
EU458101-M	0,15 mm	140 cm



Material composition:  
95% Polyamide, 5% TPU



Washing instruction:  
Once the I-ARX® is attached into the orthosis,  
we recommend hand wash with mild detergent.



## P-ARX® Neptune™ Thin Padding

This is a thin padding that can be used in orthotics with limited space. The padding is made from Neptune™ as the top layer against the skin. Neptune™ is breathable and hydrodynamic and dries quickly. The bottom side of the material attach to the I-ARX® Inner Lining. The material is latex free.

**Suitable for:** Padding for insoles, fracture braces, spinal braces, knee braces and hand splints.

Art.no	Thickness	Width	Length
EU458201	1,8 mm	58 cm	100 cm

The material is also available as running meter:

Art.no	Thickness	Width
EU458201-M	1,8 mm	140 cm



Material composition:  
48% Polyamide, 48% Polyester, 4% TPU



Washing instruction:  
Machine washable in 60° C



## P-ARX® Neptune™ 3,5 mm Padding

This is a thicker padding that can be used in orthotics that require pressure absorption. The padding is made from Neptune™ as the top layer against the skin. Neptune™ is breathable, hydrodynamic and dries quickly. The core is a 2 mm micro perforated CR foam. The bottom side of the can be attached to the I-ARX® Inner Lining. The material is latex free.

**Suitable for:** Fracture braces, spinal braces and knee braces.

Art.no	Thickness	Width	Length
EU458202	3,5 mm	58 cm	100 cm

The material is also available as a full sheet:

Art.no	Thickness	Size
EU458202-S	3,5 mm	125 x 318 cm



Material composition:  
40% Polyamide, 40% Polyester, 20% CR-foam



Washing instruction:  
Machine washable in 60° C



## Mediroyal SRX® Strap Material

Our popular SRX® Strap is available in larger material sheets. The material attaches to itself through the autogrip function and is breathable with two elastic directions depending on how it is cut.

**Suitable for:** Custom orthotic solutions as well as a thin padding together with the I-ARX® Inner Lining.

### Camo Pattern

Art.no	Thickness	Width	Length
EU456900	1 mm	58 cm	100 cm

### Navy Blue

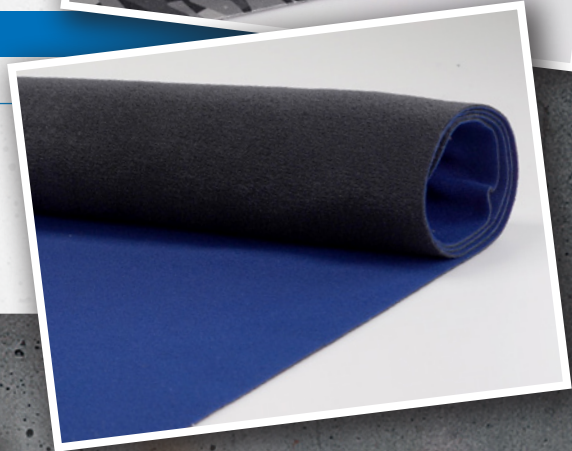
Art.no	Thickness	Width	Length
EU457900	1 mm	58 cm	100 cm



Material composition:  
95% Polyester, 5% Elasthane



Washing instruction:  
Machine washable in 40° C



# Self-adhesive padding

Self-adhesive padding is a quick-solution to comfort splinting. It can be used both on edges as well as inside the orthotic construction to add comfort. Our self-adhesive glue is water based and hypoallergenic making it suitable for patients with sensitive skin. All padding materials are latex-free.

## Ventilated Mesh Self-adhesive

This mesh material is non-elastic and provides both pressure absorption and ventilation, which can be used in critical areas of the splint. The self-adhesive film has a strong bond to most materials including PE.

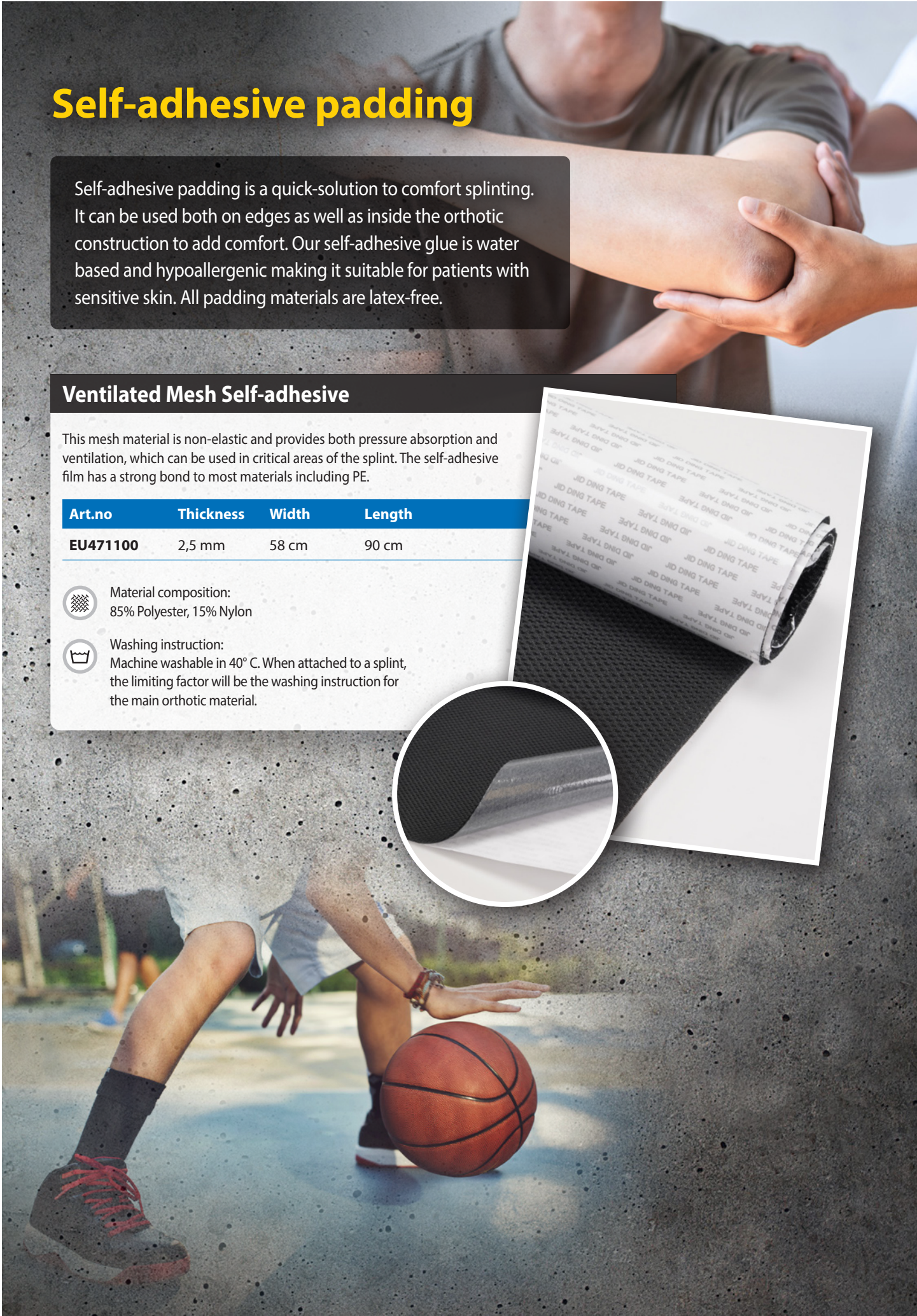
Art.no	Thickness	Width	Length
EU471100	2,5 mm	58 cm	90 cm



Material composition:  
85% Polyester, 15% Nylon



Washing instruction:  
Machine washable in 40° C. When attached to a splint, the limiting factor will be the washing instruction for the main orthotic material.



## Ventus™ Fleece Edging Tape & Padding

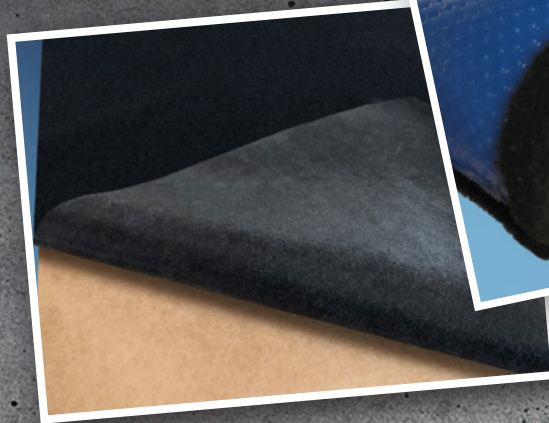
The Ventus™ Fleece material is a spun micro-fiber polyester fleece with extremely soft surface for maximum comfort. The material is elastic which allows it to be draped over edges by stretching it. The adhesive is water based and hypo-allergenic and attaches well to most surfaces.

### Edging tapes

Art.no	Width	Length	Color
EU451020	20 mm	5 meter	Black
EU451030	30 mm	5 meter	Black

### Padding material

Art.no	Width	Length	Color
EU451300	30 cm	1 meter	Black



## Neptune™ Edging Tape & Padding

The Mediroyal Neptune™ material is a hydrodynamic material that both cools the skin surface, absorbs and transports moisture and has a very high comfort. The material is extremely thin, only 0,4 mm, which makes it possible to attach inside a custom molded splint with limited space. The material is highly elastic, making it possible to attach to 3-D shapes. The adhesive is water based and hypo-allergenic and attaches well to most surfaces.

### Edging tapes

Art.no	Width	Length	Color
EU461020	20 mm	5 meter	Grey
EU461030	30 mm	5 meter	Grey

### Padding material

Art.no	Width	Length	Color
EU461300	30 cm	1 meter	Grey



## Mediroyal Double Soft Elastic

Double Soft Elastic is a thin, semi-elastic strap material that can be used secure and close smaller orthotic devices like foot parts on DAFO:s or resting hand splints. Double Soft Elastic conforms to the anatomy and can be attached onto the self-adhesive low-profile hook like EU445060 and EU445160. The Double Soft Elastic is available in 3,1 m rolls in two widths.

Art.no	Width	Length	Color
EU450080	80 mm	3,1 meter	Black
EU450110	110 mm	3,1 meter	Black



## Mediroyal X-Strap

The X-Strap is developed by Mediroyal and features double sided OP loop material that has been welded together providing a stable strap with 2% reduced elasticity. This makes the strap useful in contoured orthotics where the straps need to run over complex shapes. The strap can be cut without fraying. The X-Strap is available in 10 m rolls in two widths.

Art.no	Width	Length	Color
<b>EU445240</b>	40 mm	10 meter	Black
<b>EU445250</b>	50 mm	10 meter	Black



## Mediroyal C-Loop Strap

C-Loop is a non-elastic strap based on a conventional loop strap that is lined on the backside and edges with a loop textile. The C-Loop strap is made like a tunnel, allowing you to insert reinforcements into the strap when riveting or sewing the strap to make the attachment point more stable.

Art.no	Width	Length	Color
<b>EU445212</b>	25 mm	15 meter	Black
<b>EU445213</b>	30 mm	15 meter	Black
<b>EU445214</b>	38 mm	15 meter	Black
<b>EU445215</b>	50 mm	15 meter	Black



# NRX<sup>®</sup> HEAT TAPE & LOOP HEAT TAPE

## Heat Tape for materials

The NRX<sup>®</sup> heat tapes are two heat-activated tapes that can be used to bond two materials together without stitching, but can also be used on the NRX<sup>®</sup> Strap for reinforcements to stabilize or restrict elasticity. They are easily applied by using a regular iron and a baking paper covering the tape. The recommended temperature for activation of the adhesive is 120–140 degrees Celsius and the setting time about 10 seconds. That might have to be adjusted depending on the surface of the material and the composition.

There are two qualities available – NRX<sup>®</sup> Heat Tape and NRX<sup>®</sup> Loop Heat Tape



### NRX<sup>®</sup> Heat Tape

A thin nylon strap with heat activated glue that can be used for bonding materials together or to restrict elasticity on NRX<sup>®</sup> Strap. Available in 22 mm and 35 mm widths as well as a 30 cm width.

Art.no	Width	Length	Color
EU490001	22 mm	10 meter	Black
EU490002	35 mm	10 meter	Black
EU490004	30 cm	1 meter	Black

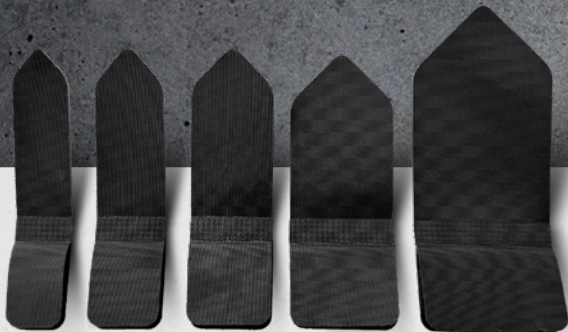
### NRX<sup>®</sup> Loop Heat Tape

This quality has loop function on the top surface with the heat activated glue on the backside. It can be used to extend loop function to areas that difficult to stitch or to laminate with thermoplastic under on the NRX Strap for additional reinforcement and stability. Available in 50 mm and 30 cm widths.

Art.no	Width	Length	Color
EU490090	50 mm	5 meter	Black
EU490091	30 cm	1 meter	Black

# Mediroyal Hook Clips

Mediroyal has developed a line of modular hook clips that can be used on regular loop as well as low profile loop textiles. They are a flexible solution to quick-fix hook closures on straps and materials.



## Mediroyal Hook Clips

The hook clips are made from an injection molded low profile hook with a strong grip that works both on conventional loop material as well as low profile OP textiles. The hook surface overlap is 30 mm in all widths.

Art.no	Width	Color	Quantity
EU445201	20 mm	Black	10 pcs/package
EU445202	25 mm	Black	10 pcs/package
EU445203	30 mm	Black	10 pcs/package
EU445204	38 mm	Black	10 pcs/package
EU445205	50 mm	Black	10 pcs/package

# Mediroyal Hook

The NRX® low profile hook has been specially developed to be used with our materials. They are injection molded with excellent grip strength and high durability. Available as self-adhesive, double laminated with hook on one side and loop on the top side and double-sided hook with standard hook on one side and strong hook on the other side.

## NRX® Low Profile Hook

The NRX® hook is also available in larger clinic dispenser pack that makes it easy to cut the desired length.

- EU445060** NRX® Self Adhesive Hook · 50 mm x 25 m roll · Transparent
- EU445160** NRX® Self Adhesive Hook Strong · 50 mm x 25 m roll · Black
- EU445061** NRX® Hook · 50 mm x 25 m roll · Black
- EU445161** NRX® Hook Strong · 50 mm x 25 m roll · Black

## Pre-Cut on roll, Self-Adhesive Hook

- EU445270** Hook Coin 20 mm Ø, 5 meter roll, Black, approx. 200 pcs
- EU445271** Hook Coin 30 mm Ø, 5 meter roll, Black, approx. 145 pcs
- EU445272** Hook Oval 25 x 45 mm, 5 meter roll, Black, approx. 165 pcs

## NRX® Low Profile Loop

This is a self-adhesive low profile loop that works together with the low profile hook qualities. The loop is semi-elastic making it possible to attach over complex 3-D shapes. The glue attaches well to all thermoplastic materials including PE.

- EU445280** Self Adhesive Loop, 50 mm x 25 meter roll, Black

## NRX® Double-Sided Hook

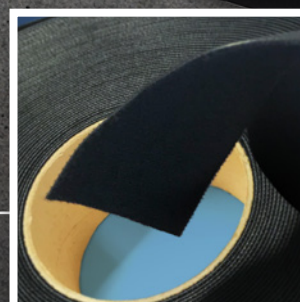
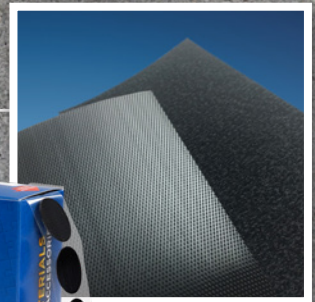
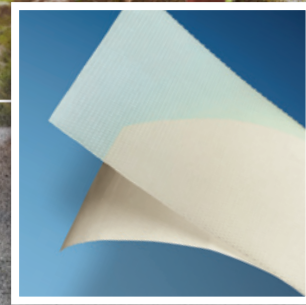
This is a double sided hook with a combination of two different qualities; standard and strong. The standard side is transparent and the strong side is black.

- EU445260** Double sided hook, standard/strong, 50 mm x 25 meter roll, Transparent/Black

## NRX® Elastic Tension Hook

The NRX® Elastic Tension hook provides a high degree of stability and compression. Can be used for trunk and pelvic to compensate and stabilize the hip or lower part of the back. It's also excellent to use as compression reinforcement over any NRX® Strap application.

- EU445070** NRX® Elastic Tension Hook · 50 mm x 25 m roll · Black
- EU445070-1** NRX® Elastic Tension Hook · 50 mm x 1 m · Black





**Our NRX®-ARX®-SRX® catalogue has more soft strap splinting materials along with applications. Can be downloaded from our website or by scanning the QR-code.**



Orthoses are our passion



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