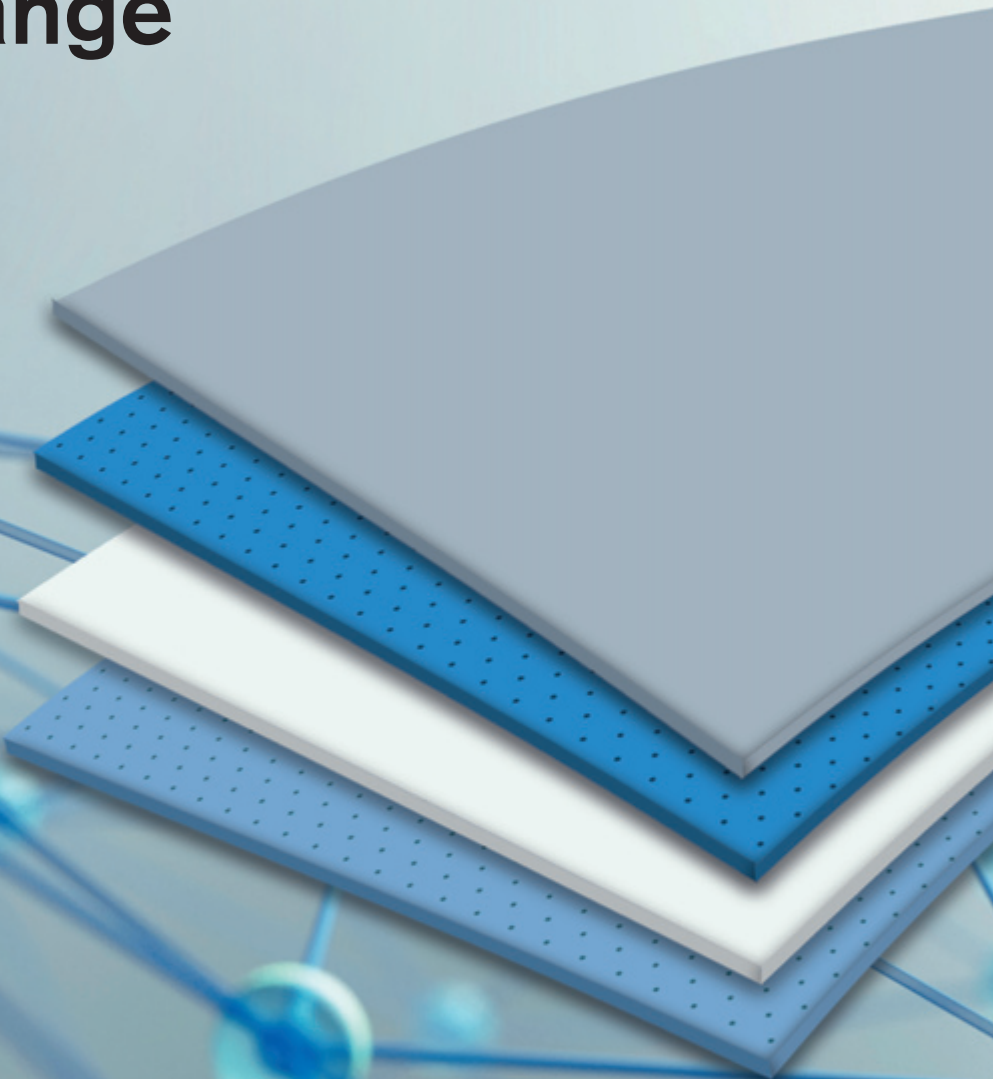


Certified
quality products
made of EVA and rubber,
for health and industry

Product range 2023/2024



**MADE IN
GERMANY**

EVA solutions for health and industry
www.nora-material.de | www.nora-material.com

nora[®]
by **Interface**[®]

Production site Weinheim

We are a **German manufacturer** of high-quality **closed cell** sheets made of **EVA** as well as products made of **rubber**.

Our **certified branded products** are used in the orthopaedic footwear, in orthopaedic technology, the shoe industry, by traditional shoemakers and in a wide range of industrial applications.

Since 2018, **nora systems GmbH** has been part of Interface Inc., with headquarters in Atlanta, USA.

For more than 80 years **Weinheim** in Germany is headquarters and **production site** of nora and currently the only production site for the high-quality EVA and rubber materials.



EVA and expanded rubber materials

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Under the **MDR** (Medical Device Regulation, EU Regulation 2017/745), materials used for the production of medical products must be provided, amongst others, with a **declaration of clearance** with respect to their toxicological properties.

✓ **nora® products are free from constituents posing toxicological and carcinogenic risks as set down under EU Regulation 2017/745.**

In addition, **nora® EVA** materials are free from phthalates and latex.

The closed-cell structure of the EVA materials minimises the risk of harm to health due to germ and bacterial colonies and facilitates complete hygienic cleaning and disinfection of the surface with standard commercial disinfectants.

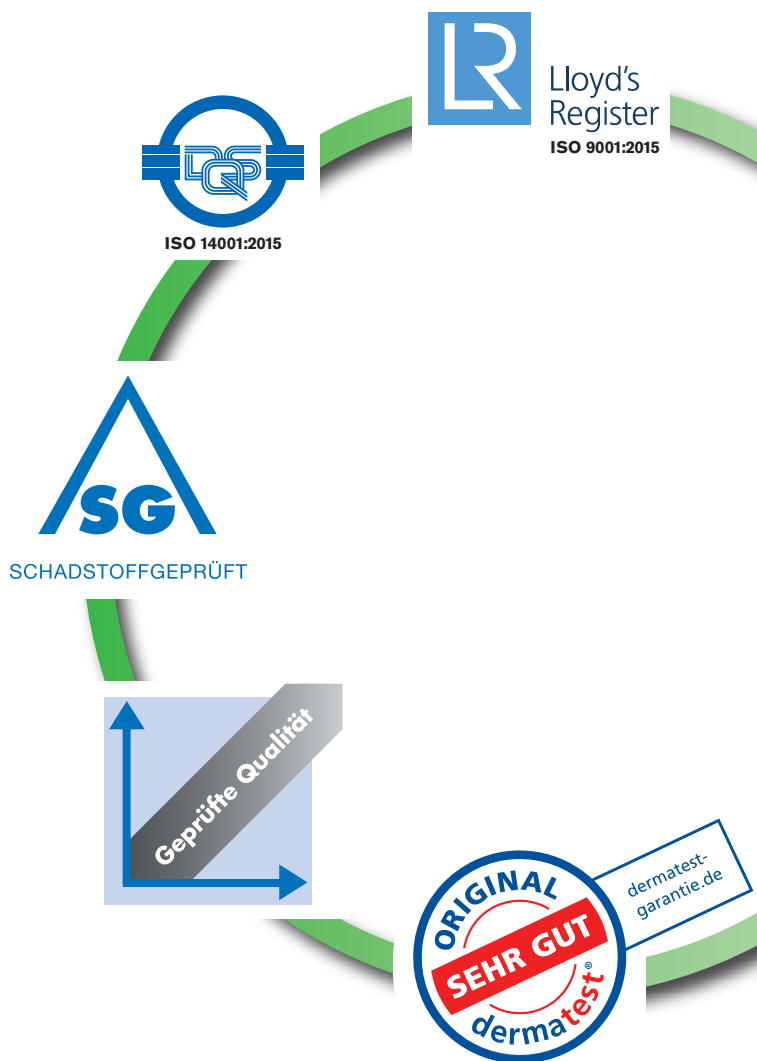
✓ Because of their characteristics, **nora® materials** are suitable for processing into Class 1 medical products. Compliance with the legal requirements is confirmed by a **declaration of clearance**.

Dynamic long-term loading tests, verified disinfectability, guaranteed batch tracking, cytotoxicity tested under ISO 10993 and proven skin compatibility round off our continuous quality assurance measures.

For us, as a manufacturer of products that are also used in medical products, certification under international standards is just as much a matter of course as adherence to the applicable regulations, such as REACH.



▶ As a German manufacturer, we assume special responsibility for consistent quality, innovative product developments, practicable diversity and the highest possible reliability and safety. QM certification according to ISO 9001:2015 and our environmental management system according to ISO 14001 are the foundations ensuring the consistent quality of our products. These are supplemented by a large number of voluntary measures. The Weinheim production site and regular quality control produce quality on a consistently high level.



All **nora**[®] products are free from toxic heavy metals and carcinogenic aromatic amines contained in dyes. **nora**[®] products are also free from pentachlorophenol (PCP) and carcinogenic N-nitrosamines.

SG Certification Mark

Acknowledged throughout the sector, this pollutant test mark is awarded by approved test institutes following regular and thorough material analyses.

Alongside the testing of parameters prescribed by law, the SG package also confirms, for example, that no carcinogenic amines have been detected.

✓ **Countless nora[®] products have been tested and certified since 1998 according to the catalogue of SG test criteria valid at the time.**

The certificate: the crucial difference

The **SG pollutant test mark** is awarded following thorough material analyses. This test mark confirms that, according to current knowledge, there are no risks to health. It entitles the test institute to take samples at any time from ongoing production and does not constitute a once only test.

✓ **nora[®] products are basically not just tested, but certified.**
A simple test report does not confirm compliance with the SG mark.

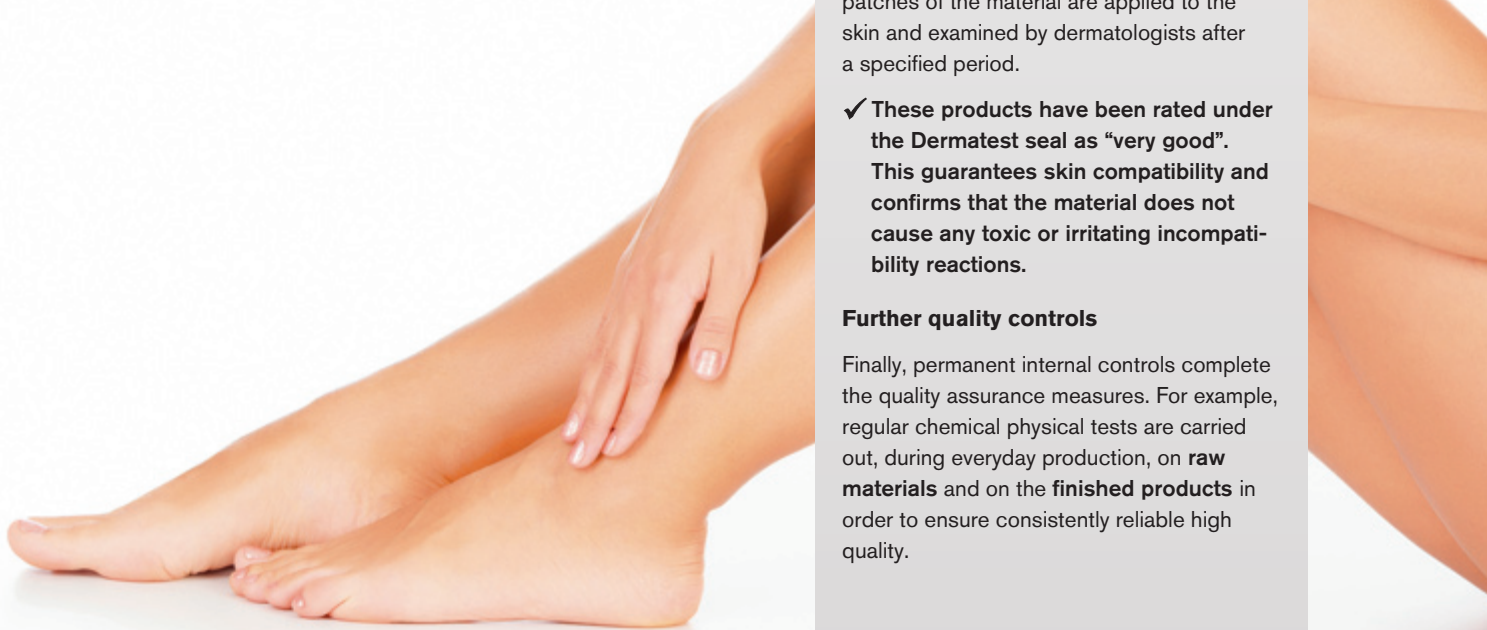
The Dermatest seal proven skin compatibility

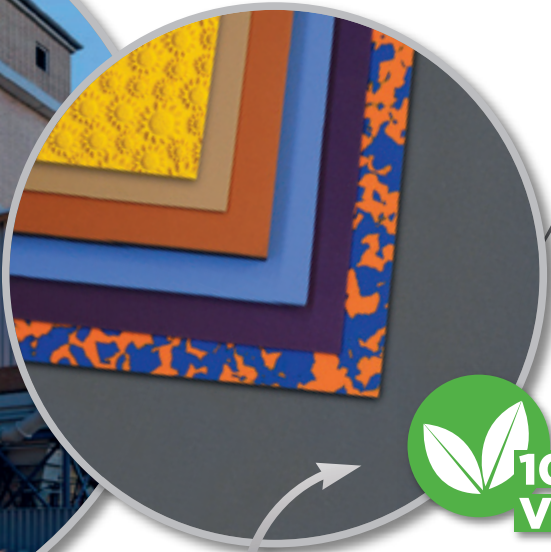
Since 1988, **nora**[®] materials have been regularly tested for skin compatibility. The dermatological tests are performed on human skin. Through the patch test, small patches of the material are applied to the skin and examined by dermatologists after a specified period.

✓ **These products have been rated under the Dermatest seal as “very good”.**
This guarantees skin compatibility and confirms that the material does not cause any toxic or irritating incompatibility reactions.

Further quality controls

Finally, permanent internal controls complete the quality assurance measures. For example, regular chemical physical tests are carried out, during everyday production, on **raw materials** and on the **finished products** in order to ensure consistently reliable high quality.





 **100% VEGAN**



MADE IN GERMANY



The **nora®** range offers practitioners of materials made of **closed cell EVA, rubber and light-cell rubber** a colourful variety of known qualities as well as innovative, solution-oriented product developments.

Expanded EVA foam sheets are used mostly as resilient **cushioning materials and lift sheets**. For that purpose, a broad spectrum of materials with **cushioning, bedding, permanently resilient, and stabilising** function is available for selection. The function assumed by each material depends on its specific composition, density, and hardness.

Conversion table: The manufacturing unit of measure is millimeters. For US customers: Please use this conversion table to find your material.

mm	inch decimal	inch fraction*	mm	inch decimal	inch fraction*
1.5	0.0590	1/16	8	0.3150	5/16
1.8	0.0709		9	0.3543	
2	0.0787		10	0.3937	3/8
2.5	0.0984		12	0.4724	
2.7	0.1063		13.5	0.5315	
3	0.1181	1/8	14	0.5512	9/16
3.5	0.1378		15	0.5906	
4	0.1575		16	0.6299	5/8
4.3	0.1693		20	0.7874	
4.5	0.1772		22	0.8661	7/8
5	0.1969	3/16	24	0.9449	
6	0.2362	1/4	30	1.1811	1.1/4
6.5	0.2559		32	1.2598	
7	0.2756		35	1.3780	1.3/8

* USA standard sizes and closest metric equivalent. These figures are approximate.



The **nora®** range is 100% vegan and latex-free. The materials are available in light natural hues, classic dark colours and modern shades and designs. **Coordinated colours across many products** make it possible to combine lifting and soling materials in matching colours.

The EVA materials are characterised by an excellent workability, especially in terms of **thermoplastic mouldability, bonding and grinding properties**.

It has always been our goal above all to develop materials that **simplify everyday work, guarantee safety**, and offer new properties and **new solutions**.

That includes multilayer **composite sheets** for the simplified sandwich technique, a range of **milling materials** and materials with specific **functional characteristics**, which absorb shearing forces in movement, for example.

All sheets are available in various thicknesses, formats and colours. Thanks to their **closed-cell structure**, EVA materials are **hygienically washable** which facilitates complete hygienic cleaning and **disinfection** at the surface and no moisture can get inside.

Because of their high-quality properties, our materials are also used in many **industrial areas** where there is a need for **high-quality foam**.

Overview of foot orthotics

Lift sheets and cushioning sheets

Product	Hardness approx. Shore A	Density approx. g/cm ³	thermo- formable	Page
Astro form 8	–	0.21	at 110°–130° C	14
Astro med 10	10	0.27	no	13
Lunatec motion	12	0.13	at 110°–130° C	13
Astro form 15	15	0.32	at 110°–130° C	14
Aero sorb M	–	0.16	at 110°–130° C	15
Aero sorb W	–	0.16	at 110°–130° C	15
Lunairmed	16	0.08	at 110°–130° C	11
Lunatur 18 Walnut	18	0.12	at 110°–130° C	17
Lunatec motion 20	20	0.18	at 110°–130° C	13
Lunairflex	22	0.12	at 110°–130° C	11
Lunatec EP	23	0.21	at 110°–130° C	12
Lunalastik	25	0.20	at 110°–130° C	12
Lunatur 27 Walnut	27	0.23	at 110°–130° C	17
Lunasoft SLW	30	0.20	at 130° C	18
Lunasoft SL	40	0.20	at 130° C	19
Lunatec SE	45	0.29	at 130° C	21
Lunatur 50 Walnut	50	0.34	at 130° C	17
Lunasoft AL	53	0.26	at 130° C	21
Lunalight A	60	0.35	at 130° C	22
Lunacell	68	0.37	at 130° C	23
Norit L	93	0.90	at 130° C	23
Norit	95	1.00	at 130° C	23

All sheets are available in different thicknesses, formats and colours. The recommended temperatures are guidelines that can vary depending on the thickness of the material. The softer the material, the more caution should be exercised with high temperatures!

Properties:

cushioning

bedding/shockabsorbing

bedding

permanently resilient

stabilising

Conversion table:

at 110°–130° C at 230°–266° F

at 110° C at 230° F



Product information and application tips:



composite sheets Lunatec combi

Product name Total thickness	Layers approx. mm	Hardness approx. Shore A	Density approx. g/cm ³	Page	Figure
Lunatec combi 1 14 mm	Lunalastik (6 mm) Lunasoft AL (8 mm)	25 52	0.23 0.26	24	
Lunatec combi 2 16 mm	Lunairflex (6 mm) Lunasoft SLW (10 mm)	22 30	0.12 0.20	24	
Lunatec combi 3 16 mm	Lunalastik (6 mm) Lunasoft SLW (10 mm)	25 30	0.23 0.20	25	
Lunatec combi 4 9 mm	Lunairflex (3 mm) Lunalastik (6 mm)	22 25	0.12 0.23	25	
Lunatec combi 5 7 mm	Lunalastik (3 mm) Lunasoft SLW (4 mm)	25 30	0.23 0.20	25	
Lunatec combi 6 14 mm	Lunasoft SLW (4 mm) Lunasoft AL (10 mm)	30 52	0.20 0.26	25	
Lunatec combi 7 7 mm	Lunasoft SLW (3 mm) Lunasoft SL (4 mm)	30 40	0.20 0.20	26	
Lunatec combi 8 12 mm	Lunatec EP (4 mm) Lunatec SE (8 mm)	22 45	0.20 0.28	26	
Lunatec combi cork 1 14 mm	Lunalastik (6 mm) Lunatec cork H (8 mm)	25 50	0.23 0.35	27	
Lunatec combi CW 14 mm	Lunatur 27 (6 mm) Lunatec cork H (8 mm)	27 50	0.23 0.35	17	
Lunatec combi motion 1 16 mm	Lunatec motion (6 mm) Lunasoft SL (10 mm)	12 40	0.13 0.20	26	
Lunatec combi T1 15 mm	Lunasoft SLW (3 mm) Lunasoft Z (4 mm) Lunasoft AL (8 mm)	30 25 52	0.20 0.17 0.26	27	
Lunatec combi motion T2 20 mm	Lunatec motion (7 mm) Lunasoft Z (5 mm) Lunatec CAD35 (8 mm)	12 25 35	0.13 0.16 0.20	27	

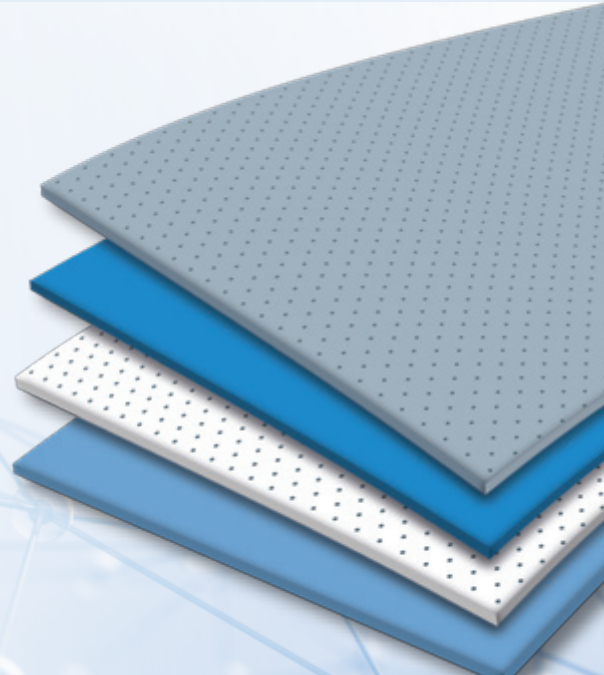
Global innovation:

nora[®] Lunatec fusion

bonds directly without any adhesive ...

Lunatec fusion is a global innovation in expanded EVA materials which ensure a reliable, permanent bond without the additional use of adhesive. This allows fast, clean, environmentally friendly and healthy work at the highest level of quality that's made in Germany.

With **Lunatec fusion**, orthopaedic insoles and foot beddings can be made entirely without adhesive. These unique new materials bond directly with each other through thermoplastic moulding solely as a result of heat, time and pressure and fuse to create a permanent bond. The materials bond directly, without any glue or adhesive lamination.



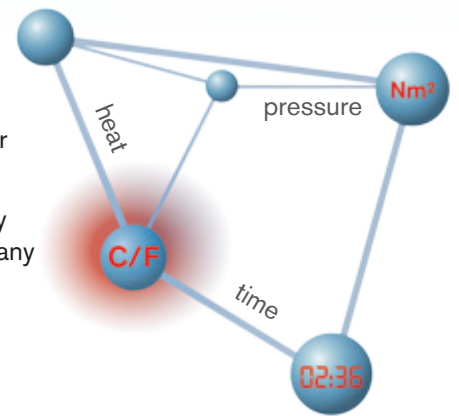
The advantages are clear:

- ▶ massive savings on time and costs
- ▶ clean, fast and healthy friendly working
- ▶ no need to apply adhesive
- ▶ no discolouration or tangible hardening
- ▶ no contamination from glue
- ▶ no long drying and waiting times
- ▶ ready for use immediately after cooling down

The principle of bonding

The principle of „fusing” on the basis of EVA is well known in the industry and in the world of hand-crafting, and also from hotmelt adhesives. The EVA polymer provides stability here and ensures optimum bonding.

Lunatec fusion works in a similar way: The warmed EVA materials bond directly together permanently during the cooling phase, **without adhesive** and without any intermediate layer.



Lunatec fusion	Thickness	Heating time	Cooling time
20	2 mm	30 sec.	1 min.
	3 mm	45 sec.	1.5 min.
	4 mm	1.5 min.	3 min.
30	2 mm	45 sec.	1.5 min.
	3 mm	1 min.	2 min.
	4 mm	2 min.	4 min.
40	6 mm	3 min.	6 min.
	8 mm	4 min.	8 min.
	12 mm	6 min.	12 min.
	50	8 mm	4.5 min.
12 mm		7 min.	14 min.

Processing instructions for a reliable bonding ...

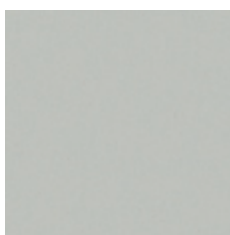
- ▶ **roughen** the materials used
- ▶ use **a perforated** material
- ▶ oven setting: **130° C // 266° F**, stick to the **recommended times**
- ▶ make sure of **sufficient pressure** of the drawing bladder
- ▶ rule of thumb: heating time x 2 = ideal cooling time

With **perforated materials**, the heating time can be shortened by about a third as the heat spreads through the material faster. For the optimal cooling time, please consider the **total thickness** of the materials used.



nora® Lunatec fusion 20 expanded EVA sheets, smooth and perforated, trimmed edges

NEW



60 bright grey
smooth



60 bright grey
perforated

Hardness:
approx. 20 Shore A

Density:
approx. 0.12 g/cm³

Format:
approx. 1050x760 mm // 41.3" x 29.9"

▼ SMOOTH

Colour: 60 bright grey
Thicknesses: 2 | 3 | 4 mm

▼ PERFORATED

Colour: 60 bright grey
Thickness: 4 mm

Properties:

Bonding without adhesive within the **Lunatec fusion** range; lightweight, soft and elastic, low density, good elastic recovery, comfortable walking.

Processing notes:

Roughen materials, thermoformable at approx. 130° C // 266° F and can be processed in sandwich design without adhesive if sufficient pressure is applied.

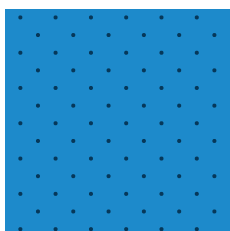


nora® Lunatec fusion 30 expanded EVA sheets, smooth and perforated, trimmed edges

NEW



378 blue
smooth



378 blue
perforated

Hardness:
approx. 30 Shore A

Density:
approx. 0.15 g/cm³

Format:
approx. 1000x700 mm // 39.4" x 27.5"

▼ SMOOTH

Colour: 378 blue
Thicknesses: 2 | 3 | 4 | 6 mm

▼ PERFORATED

Colour: 378 blue
Thickness: 4 mm

Properties:

Bonding without adhesive within the **Lunatec fusion** range; lightweight, dimensionally stable, flexible and elastic, good elastic recovery.

Processing notes:

Roughen materials, thermoformable at approx. 130° C // 266° F and can be processed in sandwich design without adhesive if sufficient pressure is applied.



i

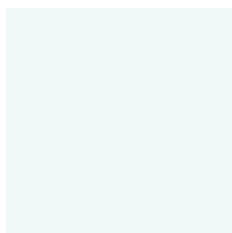
Because vulcanised EVA sheets basically consist of hygienic closed cells, the process works best when a **perforated material** is used, and the trimmed materials are **roughened** by sanding before processing. This enlarges the surface to give full-surface bonding. This is a normal step even in traditional insole manufacture, intended to achieve better bonding and avoid air inserts.

In addition to various material layers, other **material blanks** (e.g. for reinforcing in the arch) can be positioned flexibly and bonded to each other in a single deep drawing process.

Lift sheets and cushioning sheets

nora® Lunatec fusion 40 expanded EVA sheets, smooth and perforated, trimmed edges

NEW



09 white
smooth



09 white
perforated

Hardness:
approx. 40 Shore A

Density:
approx. 0.20 g/cm³

Format:
approx. 1040 x 625 mm // 40.9" x 24.6"

▼ SMOOTH

Colour: 09 white
Thicknesses: 4 | 8 | 12 mm

▼ PERFORATED

Colour: 09 white
Thicknesses: 4 | 8 mm

Properties:

Bonding without adhesive within the **Lunatec fusion** range; lightweight, dimensionally stable and elastic, good elastic recovery, comfortable walking.

Processing notes:

Roughen materials, thermoformable at approx. 130° C // 266° F and can be processed in sandwich design without adhesive if sufficient pressure is applied.

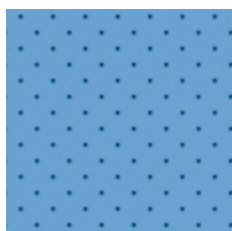


nora® Lunatec fusion 50 expanded EVA sheets, smooth and perforated, trimmed edges

NEW



27 light blue
smooth



27 light blue
perforated

Hardness:
approx. 50 Shore A

Density:
approx. 0.30 g/cm³

Format:
approx. 1020 x 675 mm // 40.2" x 26.6"

▼ SMOOTH

Colour: 27 light blue
Thicknesses: 8 | 12 mm

▼ PERFORATED

Colour: 27 light blue
Thicknesses: 4 | 8 mm

Properties:

Bonding without adhesive within the **Lunatec fusion** range; dimensionally stable and elastic, good elastic recovery.

Processing notes:

Roughen materials, thermoformable at approx. 130° C // 266° F and can be processed in sandwich design without adhesive if sufficient pressure is applied.



i

The heated materials bond together permanently under pressure during the cooling phase. Once the materials have bonded with each other, the material is more likely to break if an attempt is made to separate them, rather than the cooled layers coming apart. This has been proved by testing the peel resistance according to DIN EN 1392 (Testing of bond strength of adhesives). This means that the bond created is actually stronger than the material itself.

Lunatec fusion materials were developed for particularly healthy and environmentally friendly working **without the use of any adhesive at all**. However, like all other EVA materials, they can also be used with adhesive.

nora® Lunairmed expanded EVA sheets, smooth and perforated



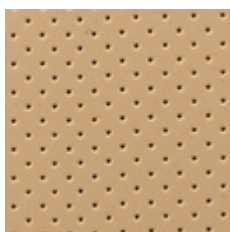
07 beige
smooth



27 light blue
smooth



80 anthracite
smooth



07 beige
perforated

Hardness:
approx. 16 Shore A

Density:
approx. 0.08 g/cm³

Format:
approx. 1080x825 mm // 42.5"x32.4"

▼ SMOOTH

Colours:	Thicknesses:
07 beige	2 3 4 5 6 8 10 12 24 mm
80 anthracite	2 3 4 6 8 mm
27 light blue	2 3 4 6 mm

▼ PERFORATED

Colour:	Thicknesses:
07 beige	3 6 mm

Intended applications:

cushioning sheets for inner shoes. For shaping elements for low stresses, e.g. calf prostheses, as upper material for interim, therapy, and bathing shoes, for beddings and shock-absorbers in inner shoes, for foot beddings for rheumatics and diabetics particularly suited for sandwich-type insoles.

Properties:

very low density, very soft, highly resilient. Excellent restoration capability and high walking comfort. Washable thanks to the closed cell structure.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material, horizontal deformation is to be avoided. Thermoformable at 110° – 130° C // 230° – 266° F.

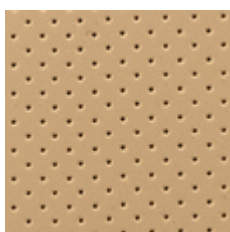
nora® Lunairflex expanded EVA sheets, smooth and perforated



07 beige
smooth



27 light blue
smooth



07 beige
perforated

Hardness:
approx. 22 Shore A

Density:
approx. 0.12 g/cm³

Format:
approx. 1200x750 mm // 47.2"x29.5"

▼ SMOOTH

Colours:	Thicknesses:
07 beige	2 3 4 5 6 8 10 12 24 mm
27 light blue	2 3 4 5 6 mm

▼ PERFORATED

Colour:	Thicknesses:
07 beige	3 6 mm

Intended applications:

cushioning sheets for inner shoes. For shaping elements for medium stresses, e.g. calf prostheses, as upper material for interim, therapy, and bathing shoes, for beddings and shock-absorbers in inner shoes.

Properties:

very low density, soft, highly resilient, good restoration capability. Washable thanks to the closed cell structure.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material, horizontal deformation is to be avoided. Thermoformable at 110° – 130° C // 230° – 266° F.

Cushioning sheets

nora® Lunalastik expanded EVA sheets, smooth and perforated



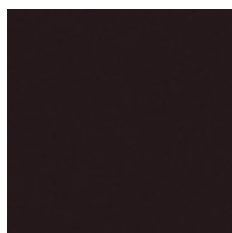
07 beige
smooth



27 light blue
smooth



70 yellow
smooth



81 black
smooth



07 beige
perforated

Hardness:
approx. 25 Shore A

Density:
approx. 0.20 g/cm³

Format:
approx. 1150 x 750 mm // 45.3" x 29.5"

▼ SMOOTH

Colours:	Thicknesses:
07 beige	2 3 4 5 6 8 mm
27 light blue	
81 black	

70 yellow	2 3 4 6 8 mm
-----------	----------------------

▼ PERFORATED

Colour:	Thicknesses:
07 beige	3 6 mm

Intended applications:

cushioning material for soft bedding insoles in orthopaedic custom-made shoes and in ready-made shoes, for cushioning for foot beddings, for cushioning support of the calcaneal spur.

Properties:

excellent cushioning properties, excellent restoration capability. Washable thanks to the closed cell structure. Excellent tear resistance.

Processing notes:

easy to bond (polychloroprene). Thermoformable at 110° – 130° C // 230° – 266° F.

nora® Lunatec EP expanded EVA sheets, smooth



302 cream



350 mint

Hardness:
approx. 23 Shore A

Density:
approx. 0.21 g/cm³

Format:
approx. 880 x 590 mm // 34.6" x 23.2"

Colours:	Thicknesses:
302 cream	2 3 4 6 8 mm
350 mint	

► Special properties for hygienic use

nora® Lunatec EP is an EVA material which was supplemented by further high-quality raw materials and thus now possesses new excellent properties. The material has a closed cell structure and especially high restoration capability, given a specifically light weight. Unlike open-cell materials made of polyurethane (PU), sweat, ichor and other liquids cannot penetrate the material but can be removed hygienically from the surface.

Intended applications:

cushioning sheets for inner shoes. For shaping elements for medium stresses, e.g. calf prostheses, as upper material for interim, therapy, and bathing shoes, for beddings and shock-absorbers in inner shoes.

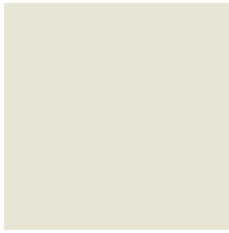
Properties:

highly resilient, excellent restoration capability, low volume loss, smooth surface, closed cell structure, durable, hygienically washable.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material, horizontal deformation is to be avoided. Thermoformable at 110° – 130° C // 230° – 266° F.

nora® Lunatec motion expanded EVA sheets, smooth, trimmed edges



06 silk



56 stone grey

Hardness:
approx. 12 Shore A

Density:
approx. 0.13 g/cm³

Format:
approx. 1100x700 mm // 43.3"x27.5"

Colours:
06 silk
56 stone grey

Format:
approx. 1400x1100 mm // 55.0"x43.3"

Colour:
06 silk

Thicknesses: 2 | 3 | 4 | 6 | 8 mm

Intended applications:

for foot orthotics and damping in inner shoes, as a top layer or for pressure relief, most of all for patients with painful foot or joint diseases like rheumatism or for sensitive diabetic feet. As cushioning in classic orthoses and as a functional lining on support orthoses and corsets. It reduces pain through minimising shear forces, making it ideal for pressure sensitive areas.

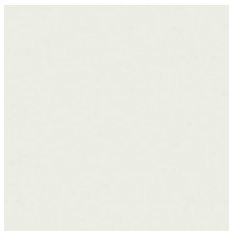
Properties:

absorbs shearing forces and has extremely soft bedding properties. Can reduce pain and allows for new trust with every footstep. Excellent bedding and damping properties in the horizontal load plane. Closed cell structure, durable and hygienically washable.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material. Thermoformable at 110° – 130° C // 230° – 266° F.

nora® Lunatec motion 20 expanded EVA sheets, smooth, trimmed edges



382 white

Hardness:
approx. 20 Shore A

Density:
approx. 0.18 g/cm³

Format:
approx. 830x615 mm // 32.6"x24.2"

Colour: 382 white

Thicknesses: 2 | 3 | 4 | 6 | 8 mm

Intended applications:

for foot orthotics and damping in inner shoes, as a top layer or for pressure relief, most of all for patients > 100 kg with painful foot or joint diseases like rheumatism or for sensitive diabetic feet. As cushioning in classic orthoses and as a functional lining on support orthoses and corsets. It reduces pain through minimising shear forces, making it ideal for pressure sensitive areas.

Properties:

absorbs shearing forces and has soft bedding properties. Can reduce pain and allows for new trust with every footstep. Excellent bedding and damping properties in the horizontal load plane. Hygienically closed cell structure and washable.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material. Thermoformable at 110° – 130° C // 230° – 266° F.

nora® Astro med 10 light-weight expanded rubber



316 vanilla

Hardness:
approx. 10 Shore A

Density:
approx. 0.27 g/cm³

Format:
approx. 1050x700 mm // 41.3"x27.6"

Colour: 316 vanilla

Thicknesses: 2 | 3 | 4.5 | 6 | 9 mm

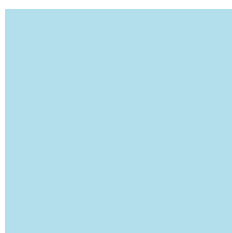
Processing notes: unlike nora® EVA material, nora® Astro med 10 is not thermoformable and is bonded in cold condition.

Intended applications:

cushioning in orthotics and prosthetics, heel and forefoot cushioning, continuous top cushioning layer of an insole, heel spur cavities for heel spur insoles, upper cushion for e.g. peroneal or ankle caps.

Cushioning sheets

nora® Astro form 8 light-weight expanded rubber, trimmed edges



318 ice blue

Density:

approx. 0.21 g/cm³

Format:

approx. 770 x 560 mm // 30.3" x 22.0"

Colour:

318 ice blue

Thicknesses:

2 | 3 | 4 | 6 | 8 mm

Intended applications:

cushioning in orthotics and prosthetics, e.g. cushioning in forefoot replacement, Haglund heel cushioning, cushioning layer for diabetes-adapted footbed, heel spur cavities for heel spur insoles, upper cushioning, e.g. for peroneal or ankle caps.

Properties:

- ▶ Extremely soft
- ▶ Excellent recovery capability after compression
- ▶ Low compression
- ▶ Outstanding cushioning properties
- ▶ Optimum shock absorbance
- ▶ Thermoformable at a processing temperature of approx. 110°–130° C // 230°–266° F
- ▶ Hygienic & disinfectable due to the closed cellular surface
- ▶ Skin tolerability tested and certified by the Institute Dermatest
- ▶ Excellent bonding properties

nora® Astro form 15 light-weight expanded rubber, trimmed edges



339 sky blue

Hardness:

approx. 15 Shore A

Density:

approx. 0.32 g/cm³

Format:

approx. 840 x 520 mm // 33.1" x 20.5"

Colour:

339 sky blue

Thicknesses:

2 | 3 | 4 | 6 mm

Intended applications:

cushioning in orthotics and prosthetics, e.g. cushioning in forefoot replacement, Haglund heel cushioning, cushioning layer for diabetes-adapted footbed, heel spur cavities for heel spur insoles, upper cushioning, e.g. for peroneal or ankle caps.

Properties:

- ▶ Extremely soft
- ▶ Excellent recovery capability after compression
- ▶ Low compression
- ▶ Outstanding cushioning properties
- ▶ Thermoformable at a processing temperature of approx. 110°–130° C // 230°–266° F
- ▶ Hygienic & disinfectable due to the closed cellular surface
- ▶ Tested and certified skin tolerability by the Institute Dermatest
- ▶ Easy to die-cut
- ▶ Excellent bonding properties

▶ Excellent recovery capability and closed cell structure

The material nora® Astro form is made of light cellular rubber with a unique composition of properties. It is very soft and resilient, yet still keeps its shape! With nora® Astro form 8 and nora® Astro form 15, this material is now available in two types. Both have a closed cell structure, are hygienically washable and optimally thermoformable, and also exhibit particular softness and high permanent resilience and recovery capability after processing.

Whereas nora® Astro form 8 is so soft that the Shore A hardness is scarcely measurable, nora® Astro form 15 is firmer and tighter with a Shore A hardness of about 15 and a density of 0.32 g/cm³,

and exhibits even greater recovery capability. The practitioner can choose between these two types depending on the load conditions, use and area.

The closed cell structure prevents wound secretion and sweat, and thus germs, bacteria and fungi, from penetrating the material. Secretions adhering to the surface can be hygienically removed using commercially available disinfectants.

nora® Aero sorb M light-weight expanded rubber, trimmed edges



319 velvet red

Softness:

M = medium

Density:

approx. 0.16 g/cm³

Format:

approx. 800x550 mm // 31.5"x21.7"

Colour:	Thicknesses:
319 velvet red	2 3 4 6 mm

Intended applications:

butterfly soles, butterfly relief, haglund heel cushioning, cushioning layer for diabetes-adapted footbed, heel spur cavities for heel spur insoles, concentrated pressure relief and cushioning in orthotics and prosthetics.

Properties:

- ▶ Extremely soft
- ▶ Bedding and absorbent properties at the same time
- ▶ Delayed recovery capability
- ▶ Shock-absorbing
- ▶ Outstanding bedding characteristics for distributing pressure
- ▶ Thermoformable at a processing temperature of approx. 110° – 130° C // 230° – 266° F
- ▶ Hygienic & disinfectable due to the closed cell structure
- ▶ Skin tolerability tested and certified by the Institute Dermatess
- ▶ Excellent bonding properties

nora® Aero sorb W light-weight expanded rubber, trimmed edges



325 pastel green



338 slate

Softness:

W = soft

Density:

approx. 0.16 g/cm³

Format:

approx. 820x580 mm // 32.3"x22.8"

Colours:	Thicknesses:
325 pastel green 338 slate	2 3 4 6 mm

Intended applications:

butterfly soles, butterfly relief, haglund heel cushioning, cushioning layer for diabetes-adapted footbed, heel spur cavities for heel spur insoles, concentrated pressure relief and cushioning in orthotics and prosthetics.

Properties:

- ▶ Extremely soft
- ▶ Bedding and absorbent properties at the same time
- ▶ Delayed recovery capability
- ▶ Shock-absorbing
- ▶ Outstanding bedding characteristics for distributing pressure
- ▶ Thermoformable at a processing temperature of approx. 110° – 130° C // 230° – 266° F
- ▶ Hygienic & disinfectable due to the closed cell structure
- ▶ Skin tolerability tested and certified by the Institute Dermatess
- ▶ Excellent bonding properties

▶ Extremely soft material with delayed recovery characteristics and closed cell structure

nora® Aero sorb is a material which is extremely soft and shock-absorbing in equal measure due to its markedly delayed recovery characteristics. This makes nora® Aero sorb suitable for installation in areas that have to remain free of pressure points or where pressure from concentrated loads has to be distributed as evenly as possible.

nora® Aero sorb is a light cellular rubber with a unique composition of properties whose absorbent characteristics can make it ideal for reducing pain.

The closed cell structure prevents wound secretion and sweat, and thus germs, bacteria and fungi, from penetrating the material. Secretions adhering to the surface can be hygienically removed using commercially available disinfectants.

Naturally of ecological value:

LUNATUR WALNUT RANGE

The annual global production of walnuts is about 1.5 million tonnes, and rising.

They taste good, and their health benefits are well-known. Compared with other nuts, the walnut has the highest content of an omega 3 fatty acid beneficial to the heart as well as valuable constituents like zinc, magnesium, iron, potassium, and many vitamins. The nuts are also said to have a prophylactic effect on diabetes, cardiovascular diseases, and cancer.



So what actually happens to the mass of shells encasing these valuable nuts?

In regard to the sustainable and ecologically aware refinement of its EVA products, nora has made use of this valuable product to develop a range of materials that can be used to manufacture orthotics or insoles of great ecological value ...

The products in the **nora® Lunatur Walnut range** consist for a large part of finely ground walnut shells. We therefore use a natural, renewable raw material without interfering with the food chain. The goal of this development was to make practical use of a natural waste product and refine the EVA material with a valuable natural resource.

The outcome are **high quality EVA materials** of different properties that also generate a comfortable foot climate. The material's closed cell structure prevents wound secretion and sweat, and thus germs, bacteria, and fungi, from penetrating the material. Secretions adhering to the surface can therefore be hygienically removed with a commercially available disinfectant.



Lift sheets and cushioning sheets

nora® Lunatur 18 Walnut expanded EVA sheets, smooth



340 nut-brown

Hardness:
approx. 18 Shore A

Density:
approx. 0.12 g/cm³

Format:
approx. 1000x730 mm // 39.4" x 8.7"

Colour:
340 nut-brown

Properties:
bedding cushioning properties

Thicknesses:
2 | 3 | 4 | 6 | 8 mm

nora® Lunatur 27 Walnut expanded EVA sheets, smooth



340 nut-brown

Hardness:
approx. 27 Shore A

Density:
approx. 0.23 g/cm³

Format:
approx. 830x585 mm // 32.6" x 23.0"

Colour:
340 nut-brown

Properties:
permanently resilient cushioning properties

Thicknesses:
2 | 3 | 4 | 6 | 8 mm

nora® Lunatur 50 Walnut expanded EVA sheets, smooth



340 nut-brown

Hardness:
approx. 50 Shore A

Density:
approx. 0.34 g/cm³

Format:
approx. 900x550 mm // 35.4" x 21.6"

Colour:
340 nut-brown

Properties:
stabilising properties

Thicknesses:
2 | 3 | 4 | 6 | 8 mm

Composite sheets

nora® Lunatur combi CW expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 1100x840 mm
// 43.3" x 33.1"

nora® Lunatur combi CW consists of nora® Lunatur 27 Walnut and nora® Lunatec cork H (EVA layer with high cork content) and provides the ideal basis for orthopaedic footbeds of great ecological value and the permanent resilience and stabilisation of insoles, e.g. for counteracting abnormal strain on the musculoskeletal system from skew, flat, splay, or hollow feet.

nora® Lunatur 27 Walnut
permanently resilient cushioning properties

Hardness:
approx. 27 Shore A

Density:
approx. 0.23 g/cm³

Colour: 340 nut-brown **Thickness:** approx. 6 mm

nora® Lunatec cork H
stabilising properties

Hardness:
approx. 50 Shore A

Density:
approx. 0.35 g/cm³

Colour: 205 cork **Thickness:** approx. 8 mm

Intended applications:

nora® Lunatur combi CW shows outstanding edge stability for pressed insoles and has excellent grinding and bonding properties. Depending on the difficulty and type of treatment, Lunatur combi CW can be supplemented with additional, stabilising material, e.g. Norit, Lunacell, or Lunatur 50 Walnut or with a soft cushioning or bedding material, e.g. Lunatur 18 Walnut or Lunatur 27 Walnut at the heel and in the forefoot.

Processing notes:

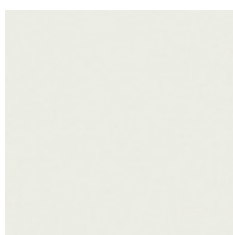
thermoformable at 110° – 130° C // 230° – 266° F.

Lift sheets and cushioning sheets

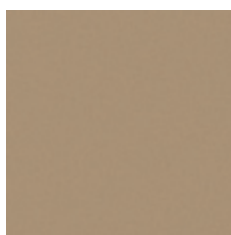
nora® Lunasoft SLW expanded EVA sheets, smooth



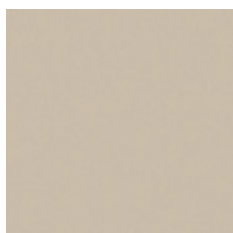
07 beige



09 white



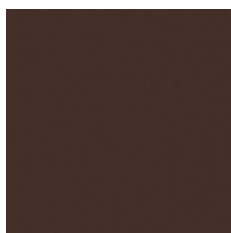
17 grey beige



19 stone



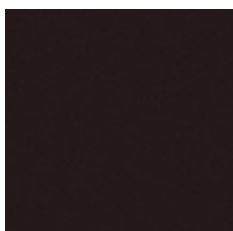
35 medium brown



46 dark brown



56 stone grey



81 black



89 red



111 royal blue



351 petrol

Hardness:

approx. 30 Shore A

Density:

approx. 0.20 g/cm³

Format:

approx. 1150x750 mm // 45.3" x 29.5"

Colours:

07 beige
81 black
09 white
17 grey beige
19 stone
35 medium brown
46 dark brown
56 stone grey

Thicknesses:

2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
and also 14 | 20 mm

2 | 3 | 4 | 6 | 8 | 10 | 20 mm

89 red 2 | 3 | 4 | 6 mm

111 royal blue

351 petrol

Intended applications:

as cushioning and shock-absorbing material for insoles, foot beddings, and sport insoles, as upper material for interim and bathing shoes, as shaping elements, e.g. resilient caps or as soft socket.

Properties:

lightweight, dimensionally stable, flexible and resilient; washable and hygienic thanks to closed cell structure

Processing notes:

thermoformable at 110°–130° C // 230°–266° F.

nora® Lunasoft SLW trendline expanded EVA sheets, smooth



4462 anthracite-orange

Hardness:

approx. 30 Shore A

Density:

approx. 0.20 g/cm³

Format:

approx. 1300x900 mm // 51.2" x 35.4"

Colour:

4462 anthracite-orange

Thicknesses:

2 | 3 mm

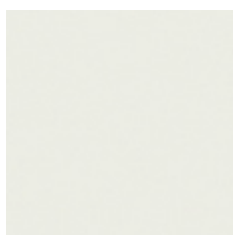
nora® Lunasoft SLW trendline is an attractive, patterned version of nora® Lunasoft SLW.

Lift sheets and cushioning sheets

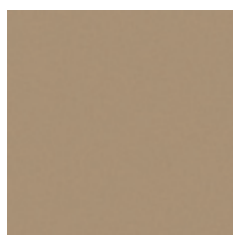
nora® Lunasoft SL expanded EVA sheets, smooth



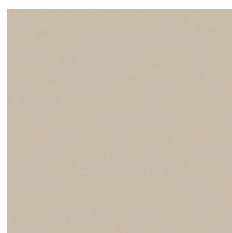
07 beige



09 white



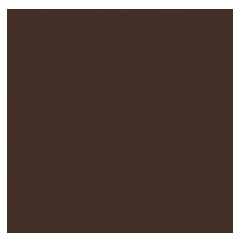
17 grey beige



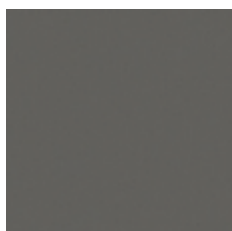
19 stone



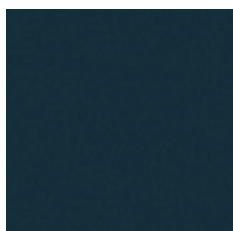
35 medium brown



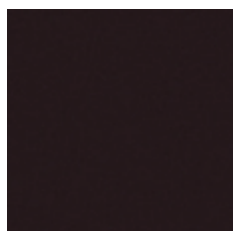
46 dark brown



56 stone grey



78 dark blue



81 black

Hardness:

approx. 40 Shore A

Density:

approx. 0.20 g/cm³

Format:

approx. 1140 x 740 mm // 44.9" x 29.1"

Colours:

07 beige

09 white

46 dark brown

81 black

17 grey beige

19 stone

35 medium brown

56 stone grey

78 dark blue

Thicknesses:

2|3|4|5|6|8|10|12|20

2|3|4|6|8|10|12|

and also 14|20 mm

2|3|4|6|8|10|20 mm

nora® Lunasoft SL are very lightweight, smooth expanded EVA sheets which are used as lift and cushioning sheets as well as covering sheets.

Intended applications:

for beddings, insoles, sport insoles, soft sockets, and shaping elements of any kind.

Properties:

lightweight, flexible and dimensionally stable, good restoration capability, high walking comfort. Washable and hygienic thanks to the closed cell structure.

Processing notes:

usual EVA bonding. Adapt contact pressure to the flexibility of the material.

thermoformable at 110° – 130° C // 230° – 266° F.

nora® Lunasoft SL color expanded EVA sheets, smooth



65 blue



69 orange



70 yellow



89 red



98 green



111 royal blue



348 lime



349 blackberry

Hardness:

approx. 40 Shore A

Density:

approx. 0.20 g/cm³

Format:

approx. 1140 x 740 mm // 44.9" x 29.1"

Colours:

65 blue

69 orange

70 yellow

89 red

98 green

111 royal blue

348 lime

349 blackberry

Thicknesses:

2|3|4|6 mm

Intended applications:

for beddings, insoles, sport insoles, and shaping elements. To cover insoles, as midsole material for children's shoes and as universal and skin-friendly covering of surfaces or outer shell of a 2-layer socket.

Properties:

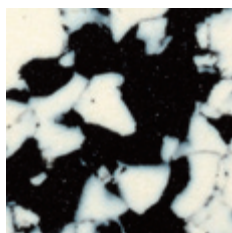
lightweight, resilient, dimensionally stable. Washable and hygienic thanks to the closed cell structure.

Processing notes:

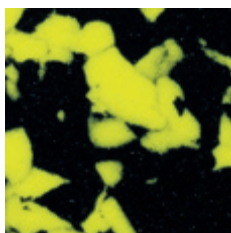
thermoformable at 110° – 130° C // 230° – 266° F.

Lift sheets and cushioning sheets

nora® Lunasoft SL color plus / quattro expanded EVA sheets, smooth



0281 white-black



9581 lemon-black



9681 pink-black



3981 lilac-black



4457 orange-blue



4444 four-coloured

Hardness:
approx. 40 Shore A

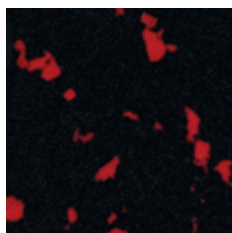
Density:
approx. 0.20 g/cm³

Format:
approx. 1280x890 mm // 50.4" x 35.0"

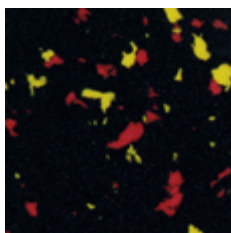
Colours:
0281 white-black
9581 lemon-black
9681 pink-black
3981 lilac-black
4457 orange-blue
4444 four-coloured

Thicknesses:
2 | 3 mm

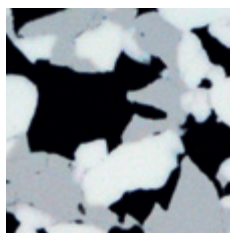
nora® Lunasoft SL trendline expanded EVA sheets, smooth



4450 black-red



4451 black-red-yellow



4463 camouflage



4445 cork look

Hardness:
approx. 40 Shore A

Density:
approx. 0.20 g/cm³

Format:
approx. 1280x890 mm // 50.4" x 35.0"

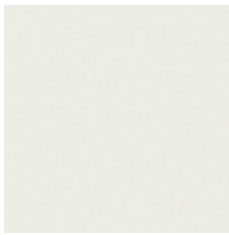
Colours:
4450 black-red
4451 black-red-yellow
4463 camouflage
4445 cork look

Thicknesses:
2 | 3 mm

Intended applications:

for beddings, insoles, sport insoles, and shaping elements. To cover insoles, as midsole material for children's shoes and as universal and skin-friendly covering of surfaces or outer shell of a 2-layer socket.

nora® Lunatec SE expanded EVA sheets, smooth



09 white



137 terra

Hardness:

approx. 45 Shore A

Density:

approx. 0.29 g/cm³

Format:

approx. 920 x 590 mm // 36.2" x 23.2"

Colours:

09 white

137 terra

Thicknesses:

6 | 10 | 14 mm

nora® Lunatec SE is a stable and resilient expanded EVA sheet which is above all particularly well-suited as lifting material for sports and street shoes as well as orthopaedic treatment. This high-quality lifting material is characterised by an excellent restoration capability and resilience as well as high dimensional stability.

Intended applications:

for insoles, sport insoles and foot beddings as stabilising shaping element, e.g. to support the back-foot, for shaping elements (e.g. in case of arthroses, ankle caps, paralysis caps, and semi-rigid tongues) or as upper material for interim and bathing shoes.

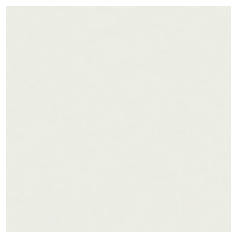
Processing notes:

thermoformable at 120° – 170° C // 248° – 338° F, formable in single-block process (for foot beddings).

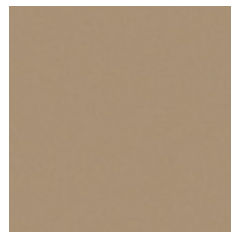
nora® Lunasoft AL expanded EVA sheets, smooth



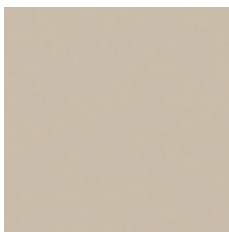
07 beige



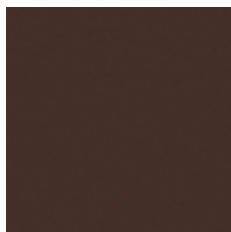
09 white



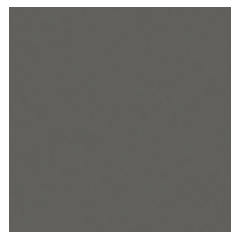
17 grey beige



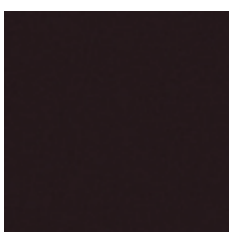
19 stone



46 dark brown



56 stone grey



81 black

Hardness:

approx. 53 Shore A

Density:

approx. 0.26 g/cm³

Format:

approx. 920 x 560 mm // 36.2" x 22.0"

Colours:

07 beige

17 grey beige

19 stone

56 stone grey

09 white

46 dark brown

81 black

Thicknesses:

6 | 10 | 20 mm

6 | 8 | 10 | 20 mm

6 | 10 | 14 | 20 mm

6 | 8 | 10 | 14 | 20 mm

nora® Lunasoft AL is a lightweight and stable expanded EVA sheet which is above all particularly suited as lifting material for sports and leisure shoes and flexible street shoes. This high-quality lifting material is characterised by low weight and high stability.

Intended applications:

for insoles, sport insoles and foot beddings as stabilising shaping element, e.g. to support the backfoot.

Processing notes:

thermoformable at 120° – 170° C // 248° – 338° F.

Lift sheets and cushioning sheets

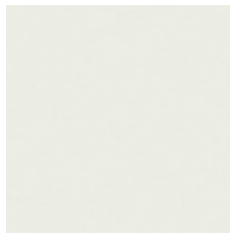
nora® Lunalign A expanded EVA sheets, smooth



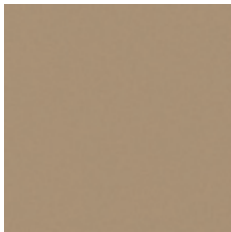
05 light beige



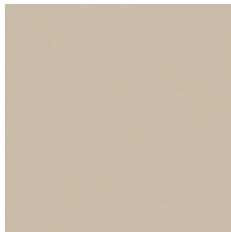
07 beige



09 white



17 grey beige



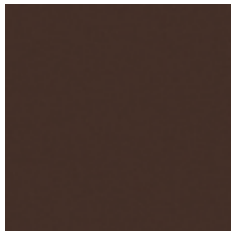
19 stone



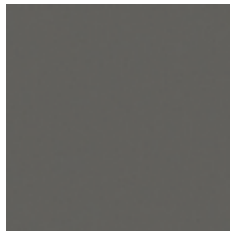
35 medium brown



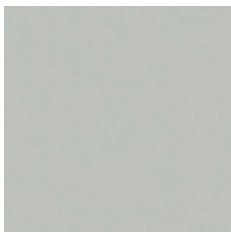
41 pale brown



46 dark brown



56 stone grey



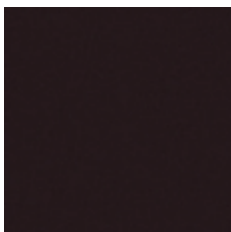
60 bright grey



78 dark blue



80 anthracite



81 black



89 red



352 jeans blue

Hardness:

approx. 60 Shore A

Density:

approx. 0.35 g/cm³

Format:

approx. 860x550 mm // 33.9" x 21.7"

Colours:

07 beige
09 white
17 grey beige
19 stone
46 dark brown
56 stone grey
60 bright grey
78 dark blue

Thicknesses:

4 | 6 | 8 | 10 | 12 | 20 mm

05 light beige 6 | 8 | 10 | 20 mm

35 medium brown

41 pale brown

80 anthracite

89 red

352 jeans blue

81 black

3 | 4 | 5 | 6 | 8 | 10 | 12 | 14

and also 16 | 20 | 24 mm

Intended applications:

lift sheets, for roll soles (for butterfly or joint rolls), for elevation of outer and inner edges, for midsoles, for shell bottoms.

Properties:

particularly hard and rigid, dimensionally stable.

Processing notes:

usual EVA bonding, thermoformable at 120°–170° C // 248°–338° F.

nora® Lunacell expanded EVA sheets, smooth and perforated



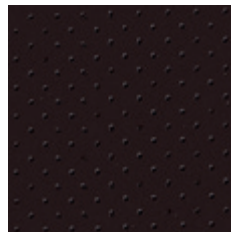
07 beige
smooth



81 black
smooth



07 beige
perforated



81 black
perforated

Intended applications:

covering material for smooth or formed insoles. Lift sheets for working shoes with high demands, for Thomas heels with frontal median, for ladies' block heels, for wedge bottoms, for midsoles and stabilising parts; for insoles and foot beddings as high-stress reinforcing element.

Hardness:

approx. 68 Shore A

Density:

approx. 0.37 g/cm³

▼ SMOOTH

Format:

approx. 850x540 mm // 33.5" x 21.3"

Colours:

07 beige

81 black

Thicknesses:

2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 mm

10 | 20 mm

▼ SMOOTH AND PERFORATED

Format:

approx. 1080x850 mm // 42.5" x 33.5"

Colours:

07 beige

81 black

Thickness:

1.5 mm

Properties:

anti-slip, scratch- and tear-resistant, highly stable, and unsusceptible to deformation, particularly hard and rigid, excellent trim properties. particularly durable for thin insoles.

Processing notes:

usual EVA bonding, thermoformable at 120° – 170° C // 248° – 338° F, depending on thickness.

nora® Norit L Semi-expanded sheets, smooth



336 sandy

Hardness:

approx. 93 Shore A

Density:

approx. 0.90 g/cm³

Format:

approx. 1000x800 mm // 39.4" x 31.5"

Colour:

336 sandy

Thickness:

2 | 3 mm

Properties:

high dimensional stability and resilience, excellent fatigue bending properties, ideal for forming, stitching, punching, cutting, and polishing to a velvet finish.

Processing notes: excellent gluing properties, thermoformable at 110° – 130° C // 230° – 266° F; after forming, leave to cool down completely.

nora® Norit Semi-expanded sheets, smooth



25 leather coloured

Hardness:

approx. 95 Shore A

Density:

approx. 1.00 g/cm³

Format:

approx. 1000x795 mm // 39.4" x 31.3"

Colour:

25 leather coloured

Thicknesses:

2 | 3 mm

Intended applications:

stabilising material for orthopaedic shoe elements, e.g. stiff tongues, ankle supports, peroneal caps, heel caps, and insoles; as a lasting allowance; or for last repairs. Also ideal as a place holder on lasts.

Properties:

high dimensional stability and resilience. Excellent bending endurance, can be excellently sewn, cut, milled, and ground. Wearresistant and washable.

Processing notes: easy to bond with polychloroprene adhesive, thermoformable at 120° – 150° C // 248° – 302° F.

Composite sheets

► **nora® Lunatec combi sheets are vulcanised compositions of proven nora® qualities.**
Permanently bonded ...



nora® Lunatec combi is an innovative product development in composite sheets: two or three different materials are vulcanised together already during the manufacturing process and guarantee secure strength, without any bonding.

nora® Lunatec combi is the ideal basis for the manufacture of foot beddings and insoles in orthopaedic shoe engineering.

Permanently bonded ... these are your benefits:

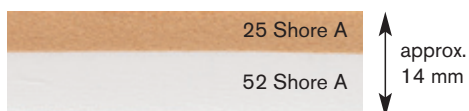
- No gluing required.
- No displacement of the different materials when processing.
- A higher retention of volume because you save at least one deep drawing.
- The composite sheets are thermoformable between 120° – 130° C // 248° – 266° F.
- Further advantages as compared to glued products: No bubble formation at the joints and no hardening because of the adhesive film.

Benefit from the efficient insole manufacture thanks to time and cost savings.

In orthopaedics shoe engineering, different material combinations are used depending on diagnosis, symptoms, and weight of the patients. We already vulcanised a lot of different combinations of materials with bedding, permanently resilient, or stabilising functions for you. And you decide which composite sheet is suitable for the individual case and which materials are to be added to guarantee an ideal treatment.

nora® Lunatec combi 1 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 925x580 mm
 // 36.4" x 22.8"

nora® Lunalastik

permanently resilient cushioning properties

Hardness:
 approx. 25 Shore A

Density:
 approx. 0.23 g/cm³

Colour: 07 beige **Thickness:** approx. 6 mm

nora® Lunasoft AL

stabilising properties

Hardness:
 approx. 52 Shore A

Density:
 approx. 0.26 g/cm³

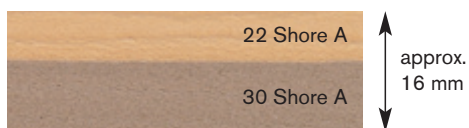
Colour: 09 white **Thickness:** approx. 8 mm

Intended applications:

basis for orthopaedic foot beddings and insoles with permanently resilient and stabilising function for increased stress. Suitable for geriatric foot, diabetes, and rheumatism, but also suitable as basis for sports insoles.

nora® Lunatec combi 2 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 880x600 mm
 // 34.6" x 23.6"

nora® Lunairflex

bedding cushioning properties

Hardness:
 approx. 22 Shore A

Density:
 approx. 0.12 g/cm³

Colour: 07 beige **Thickness:** approx. 6 mm

nora® Lunasoft SLW

permanently resilient cushioning properties

Hardness:
 approx. 30 Shore A

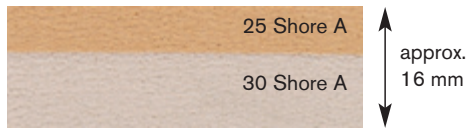
Density:
 approx. 0.20 g/cm³

Colour: 17 grey beige **Thickness:** approx. 10 mm

Intended applications: basis for orthopaedic foot beddings, in particular diabetes-adapted foot beddings with bedding and at the same time permanently resilient function. Suitable for moderate stress given sensitive feet (e.g. geriatric foot), rheumatism, and advanced-stage diabetes.

nora® Lunatec combi 3 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 870x580 mm
// 34.3" x 22.8"

nora® Lunalastik

permanently resilient cushioning properties

Hardness:
approx. 25 Shore A

Density:
approx. 0.23 g/cm³

Colour: 07 beige **Thickness:** approx. 6 mm

nora® Lunasoft SLW

permanently resilient cushioning properties

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

Colour: 19 stone **Thickness:** approx. 10 mm

Intended applications:

basis for orthopaedic foot beddings, in particular diabetes-adapted foot beddings with permanently resilient function. Best suitable for medium stress for the management of geriatric foot, and advanced-stage diabetes and rheumatism.

nora® Lunatec combi 4 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 870x540 mm
// 34.3" x 21.3"

nora® Lunairflex

bedding cushioning properties

Hardness:
approx. 22 Shore A

Density:
approx. 0.12 g/cm³

Colour: 07 beige **Thickness:** approx. 3 mm

nora® Lunalastik

permanently resilient cushioning properties

Hardness:
approx. 25 Shore A

Density:
approx. 0.23 g/cm³

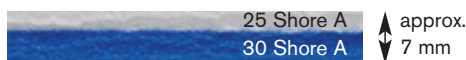
Colour: 09 white **Thickness:** approx. 6 mm

Intended applications:

basis for orthopaedic foot beddings, in particular diabetes-adapted foot beddings with bedding and at the same time permanently resilient function. Best suitable for increased stress for the management of geriatric foot, and advanced-stage diabetes and rheumatism. The combination with a stabilising nora® Luna product, e.g. Lunasoft AL, Lunalight A or Lunacell is recommended.

nora® Lunatec combi 5 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 950x600 mm
// 37.4" x 23.6"

nora® Lunalastik

permanently resilient cushioning properties

Hardness:
approx. 25 Shore A

Density:
approx. 0.23 g/cm³

Colour: 60 bright grey **Thickness:** approx. 3 mm

nora® Lunasoft SLW

permanently resilient cushioning properties

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

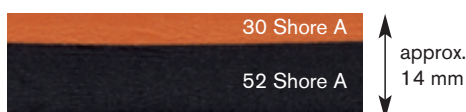
Colour: 111 royal blue **Thickness:** approx. 4 mm

Intended applications:

basis for efficiently finished, thin, permanently resilient insoles, e.g. a long-soled insole with optimal soft bedding in the forefoot. Suitable for the cushioning of orthoses, prostheses, and soft sockets.

nora® Lunatec combi 6 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 880x560 mm
// 34.6" x 22.0"

nora® Lunasoft SLW

permanently resilient cushioning properties

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

Colour: 137 terra **Thickness:** approx. 4 mm

nora® Lunasoft AL

stabilising properties

Hardness:
approx. 52 Shore A

Density:
approx. 0.26 g/cm³

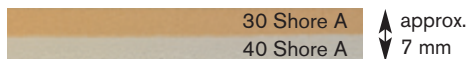
Colour: 81 black **Thickness:** approx. 10 mm

Intended applications: basis for efficiently finished sporty and modern insoles or foot beddings, e.g. long-soled sports insoles.

Composite sheets

nora® Lunatec combi 7 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 1180x840 mm
// 46.5" x 33.1"

nora® Lunasoft SLW

permanently resilient cushioning properties

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

Colour: 07 beige
Thickness: approx. 3 mm

nora® Lunasoft SL

stabilising properties

Hardness:
approx. 40 Shore A

Density:
approx. 0.20 g/cm³

Colour: 19 stone
Thickness: approx. 4 mm

Intended applications:

ideal basis for the efficient manufacture of an insole, soft-wall funnel-shaped sleeve or a soft socket. In combination with other nora® Luna products, this material is the perfect basis for orthopaedic foot beddings for the management of geriatric feet, diabetes and rheumatism.

nora® Lunatec combi 8 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 880x560 mm
// 34.6" x 22.0"

nora® Lunatec EP

permanently resilient cushioning properties

Hardness:
approx. 22 Shore A

Density:
approx. 0.20 g/cm³

Colour: 131 red
Thickness: approx. 4 mm

nora® Lunatec SE

stabilising properties

Hardness:
approx. 45 Shore A

Density:
approx. 0.28 g/cm³

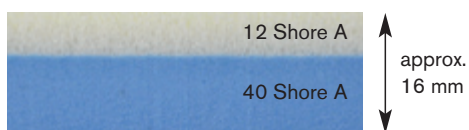
Colour: 81 black
Thickness: approx. 8 mm

Intended applications:

basis for efficiently finished sporty and modern insoles or foot beddings with high restoration capability, e.g. long-soled sports insoles.

nora® Lunatec combi motion 1 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 1200x960 mm
// 47.1" x 37.8"

nora® Lunatec motion

bedding properties

Hardness:
approx. 12 Shore A

Density:
approx. 0.13 g/cm³

Colour: 06 silk
Thickness: approx. 6 mm

nora® Lunasoft SL

stabilising properties

Hardness:
approx. 40 Shore A

Density:
approx. 0.20 g/cm³

Colour: 27 light blue
Thickness: approx. 10 mm

The upper layer of nora® Lunatec motion is extremely soft, making it ideal especially as a bedding for people with foot pain and as an absorption of shearing forces caused by walking. A large part of the load of the musculoskeletal system is being removed, and therefore the pain. What must be highlighted here as well are its **excellent bedding and damping properties in the horizontal load plane**. The objective of treatment with nora® Lunatec combi motion 1 may be, for instance, to minimise the shearing forces between the footbed and the sole, and in this manner alleviate the pain. The soft feel enables the patient to consciously place their feet, despite previous periods of pain.

Intended applications:

for insoles and damping inside a shoe; most of all for patients with painful foot or joint diseases like rheumatism or for sensitive diabetic feet. Useful in areas that are very pressure sensitive, to minimise pain through lesser shear forces.

nora® Lunatec combi cork 1 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 1120x880 mm
// 44.1"x34.6"

nora® Lunatec combi cork 1 is a vulcanised composite sheet with a stabilising EVA layer containing a high cork fraction. This composite sheet is therefore the ideal basis for the production of durable insoles. In addition, the permanently resilient cushioning layer presents a roughened velvety surface ideal for attaching leather covers.

nora® Lunalastik

permanently resilient cushioning properties

Hardness:
approx. 25 Shore A

Density:
approx. 0.23 g/cm³

Colour: 07 beige
Thickness: approx. 6 mm

nora® Lunatec cork H

stabilising properties

Hardness:
approx. 50 Shore A

Density:
approx. 0.35 g/cm³

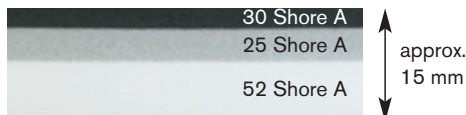
Colour: 205 cork
Thickness: approx. 8 mm

Intended applications:

permanently resilient and stabilising basis for orthopaedic footbeds and supporting insoles, e.g. for counteracting abnormal strain on the musculoskeletal system from skew, flat, splay, or hollow feet. Depending on the difficulty and type of treatment, nora® Lunatec combi cork 1 can be supplemented with additional solid, stabilising material, e.g. Norit, Lunacell, or Lunalight.

nora® Lunatec combi T1 expanded EVA sheets, trimmed edges

The vulcanised combination of:



Format: approx. 880x590 mm
// 34.6"x23.2"

The 3-layer composite sheet nora® Lunatec combi T1 is a material which is above all specifically suitable for the treatment of rheumatics and clinical pictures with especially sensitive feet. The special feature of nora® Lunatec combi T1 is the softness of its center layer. Embedded in two harder layers, it minimises the occurring shear forces with every foot strike which leads to ease of the musculoskeletal system. Thanks to the special structure of this composite sheet, it offers excellent cushioning and damping properties in the horizontal load plane. This effect is the

nora® Lunasoft SLW

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

Colour: 80 anthracite
Thickness: approx. 3 mm

nora® Lunasoft Z

Hardness:
approx. 25 Shore A

Density:
approx. 0.17 g/cm³

Colour: 307 medium grey
Thickness: approx. 4 mm

nora® Lunasoft AL

Hardness:
approx. 52 Shore A

Density:
approx. 0.26 g/cm³

Colour: 09 white
Thickness: approx. 8 mm

result of the layers being vulcanised. The materials with different hardnesses were fused in a smooth transition and there are no bonded layers which could interfere negatively with this function.

Intended applications:

orthopaedic foot beddings with excellent cushioning and damping properties in the horizontal load plane, specifically for rheumatics and clinical pictures with sensitive feet. Depending on the difficulty and the type of the treatment, nora® Lunatec combi T1 can be supplemented by a further solid stabilising material such as e.g. Norit, Lunacell, or Lunalight.

nora® Lunatec combi motion T2 expanded EVA sheets, trimmed edges

NEW

The vulcanised combination of:



Format: approx. 1000x625 mm
// 39.4"x31.5"

The 3-layer EVA composite sheet nora® Lunatec combi motion T2 is a material that is especially suited for the treatment of painful and pressure sensitive feet. The material composition combines outstanding functionality, characteristic softness and low weight.

The top layer made from Lunatec motion absorbs shear forces caused by walking and has extremely soft bedding properties. The excellent bedding and absorption properties, also in the horizontal load plane, ensure optimum pressure distribution and concentrated pressure relief. In this way, especially feet with painful areas can be treated in the best possible way.

nora® Lunatec motion

Hardness:
approx. 12 Shore A

Density:
approx. 0.13 g/cm³

Colour: 56 stone grey
Thickness: approx. 7 mm

nora® Lunasoft Z

Hardness:
approx. 25 Shore A

Density:
approx. 0.16 g/cm³

Colour: 345 green
Thickness: approx. 5 mm

nora® Lunatec CAD 35

Hardness:
approx. 35 Shore A

Density:
approx. 0.20 g/cm³

Colour: 60 bright grey
Thickness: approx. 8 mm

With their permanently elastic and stabilising properties, the two lower layers create the ideal structure for supporting sensitive feet. The layers, which have different hardnesses, are fused with each other in a smooth transition.

Intended applications:

Because of the total thickness of approx. 20 mm, nora® Lunatec combi motion T2 is ideal for the manufacture of thicker orthopaedic foot beddings, soft bedding insoles, diabetes-adapted foot beddings or beddings for orthopaedic shoes. The foot beddings can be manufactured in a deep-drawing process, saving time and money, without the use of adhesive.

Milling sheets

nora® Lunatec CAD 25 expanded EVA sheets, milling material, trimmed edges



07 beige

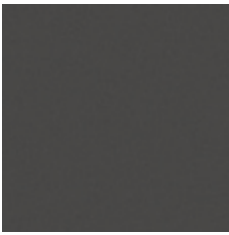
Hardness:
approx. 25 Shore A

Density:
approx. 0.12 g/cm³

Formats:
approx. 1150 x 750 mm // 45.3" x 29.5"
approx. 1500 x 1150 mm // 59.0" x 45.3"

Colour: 07 beige **Thicknesses:** 30 | 35 mm

nora® Lunatec CAD 30 expanded EVA sheets, milling material, trimmed edges



80 anthracite

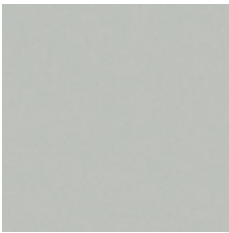
Hardness:
approx. 30 Shore A

Density:
approx. 0.15 g/cm³

Formats:
approx. 1100 x 700 mm // 43.3" x 27.5"
approx. 1400 x 1100 mm // 55.0" x 43.3"

Colour: 80 anthracite **Thicknesses:** 30 | 35 mm

nora® Lunatec CAD 35 expanded EVA sheets, milling material, trimmed edges



60 bright grey

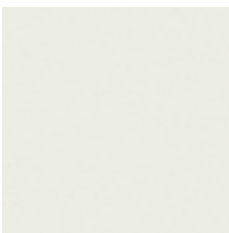
Hardness:
approx. 35 Shore A

Density:
approx. 0.20 g/cm³

Formats:
approx. 1160 x 770 mm // 45.6" x 30.3"
approx. 1540 x 1160 mm // 60.6" x 45.6"

Colour: 60 bright grey **Thicknesses:** 30 | 35 mm

nora® Lunatec CAD 45 expanded EVA sheets, milling material, trimmed edges



09 white

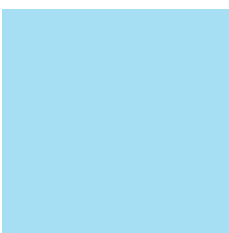
Hardness:
approx. 45 Shore A

Density:
approx. 0.22 g/cm³

Formats:
approx. 1080 x 710 mm // 42.5" x 27.9"
approx. 1420 x 1080 mm // 55.8" x 42.5"

Colour: 09 white **Thicknesses:** 30 | 35 mm

nora® Lunatec CAD 55 expanded EVA sheets, milling material, trimmed edges



318 ice blue

Hardness:
approx. 55 Shore A

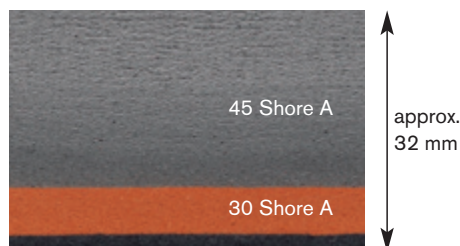
Density:
approx. 0.30 g/cm³

Formats:
approx. 1000 x 650 mm // 39.3" x 25.6"
approx. 1300 x 1000 mm // 51.1" x 39.3"

Colour: 318 ice blue **Thicknesses:** 30 | 35 mm

nora® Lunatec combiCAD 1 expanded EVA sheets, milling material, trimmed edges

The vulcanised combination of:



Formats: approx. 1120x740 mm // 44.1"x29.1"
approx. 1480x1120 mm // 58.2"x44.1"

nora® Lunatec CAD 45

Hardness:
approx. 45 Shore A

Density:
approx. 0.22 g/cm³

Colour:
56 stone grey

Thickness:
approx. 24 mm

nora® Lunasoft SLW

Hardness:
approx. 30 Shore A

Density:
approx. 0.20 g/cm³

Colour:
137 terra

Thickness:
approx. 6 mm

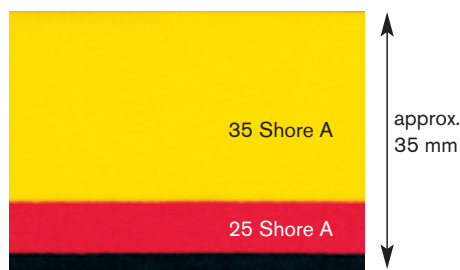
Stabilising layer

Colour:
80 anthracite

Thickness:
approx. 2 mm

nora® Lunatec combiCAD 2 expanded EVA sheets, milling material, trimmed edges

The vulcanised combination of:



Formats: approx. 1120x750 mm // 44.1"x29.5"
approx. 1500x1120 mm // 59"x44.1"

nora® Lunatec CAD 35

Hardness:
approx. 35 Shore A

Density:
approx. 0.17 g/cm³

Colour:
70 yellow

Thickness:
approx. 25 mm

nora® Lunasoft Z

Hardness:
approx. 25 Shore A

Density:
approx. 0.16 g/cm³

Colour:
131 red

Thickness:
approx. 7 mm

Stabilising layer

Colour:
81 black

Thickness:
approx. 3 mm

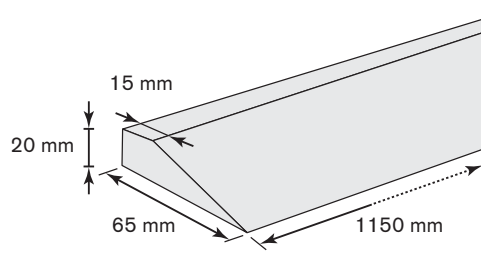
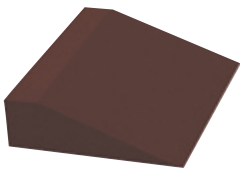
nora® Lunatec combiCAD 1 and 2 are an innovative product development in milling sheets. Three different expanded EVA qualities are vulcanised together already during the manufacturing process and guarantee secure strength, without any bonding. The development aimed at combining the optimal milling behaviour and the excellent functional properties of nora® Lunatec CAD materials with the enormous advantages of vulcanised composite

sheets and thus to obtain an optimised processing.

The difference can be seen when processing the nora® milling materials: the material can be excellently milled and the values for elongation at fracture, tensile strength, and replication are excellent. Also there are no noticeable irregularities as results of irritating adhesive layers.

Lifting wedge strips

nora® Lunasoft SLW wedge expanded EVA wedge strips, smooth



Hardness:
approx. 30 Shore A

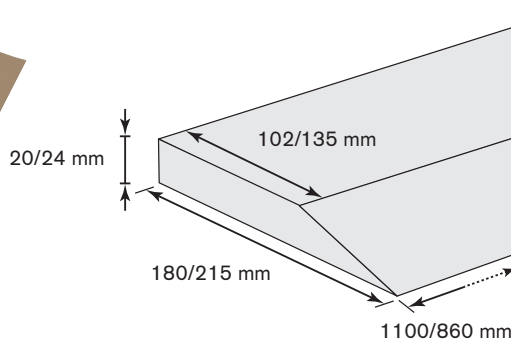
Density:
approx. 0.20 g/cm³

Format:
approx. 1150x65x20 mm // 45.3"x2.6"x0.8"

Colours:
46 dark brown
81 black

Properties:
excellent shock-absorbing properties. High walking comfort thanks to a combination of very low Shore hardness, low weight and high stability.

nora® Lunalight K expanded EVA lifting wedge strips, smooth



Hardness:
approx. 60 Shore A

Density:
approx. 0.35 g/cm³

Format:
approx. 1100x180x20 mm // 43.3"x7.1"x0.8"

Colours:
09 white
17 grey beige
19 stone
35 medium brown
46 dark brown
81 black

Formats:
approx. 860x215x24 mm // 33.8"x8.5"x0.9"
approx. 860x215x20 mm // 33.8"x8.5"x0.8"

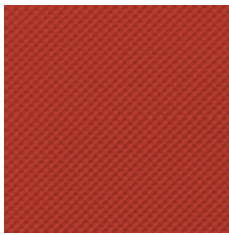
Colour:
81 black

Format:
approx. 1100x180x24 mm // 43.3"x7.1"x0.9"

Colours:
46 dark brown
81 black

nora® Lunalight K are the ideal wedge strips for economic heel built-up.

nora® Supersorb



82 brick red

Hardness:
approx. 28 Shore A

Density:
approx. 1.09 g/cm³

Format:
approx. 780x525 mm // 30.7"x 20.7"

Profile:
13 Rippled

Colour:
82 brick red

Thicknesses:
2 | 4 | 5 mm

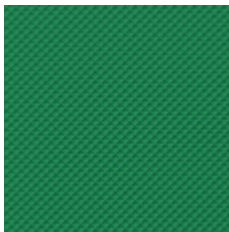
Intended applications:

very well suited for heel damping and cushioning in particular of sports shoes, function from approx. 300 kg of tread force. Both shock-absorbing and resilient, cushioning properties. Shock absorption at a thickness of 5 mm: approx. 95%.

Processing notes:

sand slightly and bond with polychloroprene adhesive. When roughening or sanding, only press slightly onto the abrasive belt. In order to make full use of the visco-elastic properties of the material in all directions, do not bond on the complete surface, if possible.

nora® Orthosorb



98 green

Hardness:
approx. 20 Shore A

Density:
approx. 1.09 g/cm³

Format:
approx. 780x525 mm // 30.7"x 20.7"

Profile:
13 Rippled

Colour:
98 green

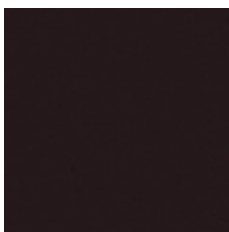
Thicknesses:
2 | 3 | 4 mm

Intended applications:

very well suited for heel damping and cushioning in particular for orthopaedic shoes. As compared to nora® Supersorb, a lesser dampening of nora® Orthosorb ensures a better cushioning and higher resilience, up to a tread force of approx. 300 kg. This corresponds to the walking load of a person of approx. 80 kg. Shock absorption at a thickness of 4 mm: approx. 83%.

Puffergummi

nora® Schweizer Puffergummi expanded rubber sheets, smooth



81 black

Hardness:
approx. 23 Shore A

Density:
approx. 0.35 g/cm³

Format:
approx. 840x520 mm // 30.1"x 20.4"

Colour:
81 black

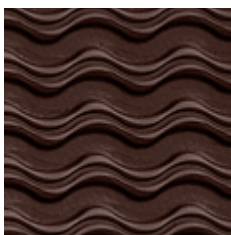
Thickness:
12 mm

nora® Schweizer Puffergummi is the first choice for applications requiring high resilience and shock-absorbance as well as dimensional stability.

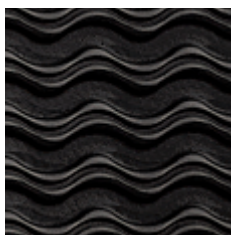
Properties:

excellent shock-absorbing properties. Excellent walking comfort thanks to a combination of very low Shore hardness and a high restoration capability.

nora® Lunasoft



46 dark brown



81 black

Hardness:

approx. 50 Shore A

Density:

approx. 0.38 g/cm³

▼ PROFILE: 78 COARSE WAVE

Format:

approx. 1040x800 mm // 40.9"x31.5"

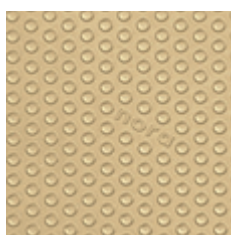
Colours:

46 dark brown

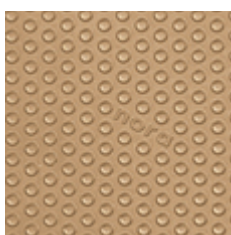
81 black

Thickness:

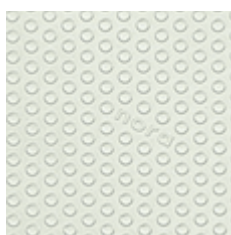
8 mm



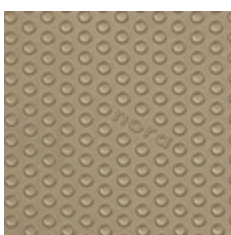
05 light beige



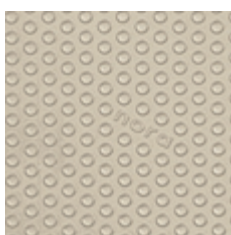
07 beige



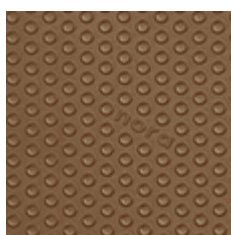
09 white



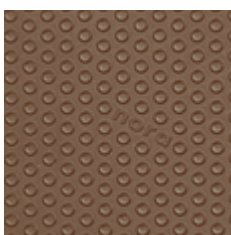
17 grey beige



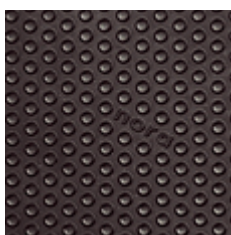
19 stone



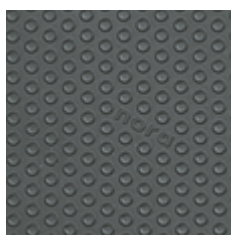
35 medium brown



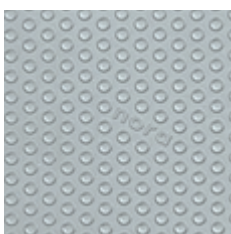
41 pale brown



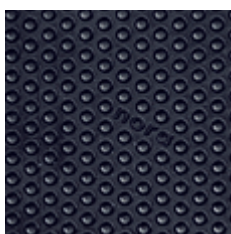
46 dark brown



56 stone grey



60 bright grey



78 dark blue



81 black

▼ PROFILE: 97 PASTILLE

Format:

approx. 800x520 mm // 31.5"x20.4"

Colours:

05 light beige

07 beige

41 pale brown

Thicknesses:

4 | 6 mm

Colours:

17 grey beige

19 stone

35 medium brown

56 stone grey

60 bright grey

78 dark blue

Thicknesses:

4 | 6 | 8 mm

Colours:

09 white

46 dark brown

81 black

Thicknesses:

4 | 6 | 8 | 10 mm

nora® Lunasoft is an expanded EVA soling sheet, especially developed for orthopaedic shoe engineering. The Lunasoft grade is the ideal combination of low weight and excellent abrasion-resistance. This soling sheet is specifically lightweight, flexible, resilient, dimensionally stable and is characterised by a high walking comfort.

The pastille profile of nora® has become a classic among the lightweight and resilient soling materials for repairs and original outfit. The non-directional "nora" in the profile makes this soling sheet a branded product with recognition factor and documents the high quality level of nora® premium products.

Intended applications:

- ▶ for sports and leisure shoes
- ▶ for resilient street shoes
- ▶ for orthopaedic shoes
- ▶ for interim and bathing shoes

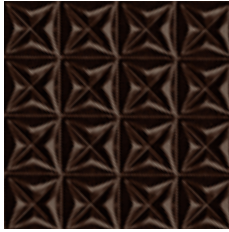
Processing notes:

- ▶ usual EVA bonding
- ▶ adapt contact pressure to the flexibility of the material
- ▶ thermoformable at 120° – 170° C // 248° – 338° F
- ▶ bonding with polychloroprene adhesives
- ▶ PVC adhesives are not recommended

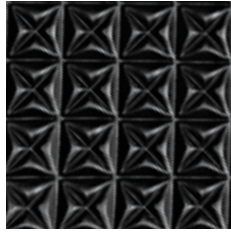
nora® Astro Soft are anti-slip soling sheets made of expanded rubber. Its low weight is a paramount requirement for modern outsole sheets, alongside premium quality and minimum abrasion.

The colours available with the nora® Astro Soft assortment and those used for the nora® EVA materials are perfectly harmonised and combinable.

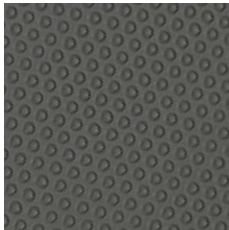
nora® Astro Soft



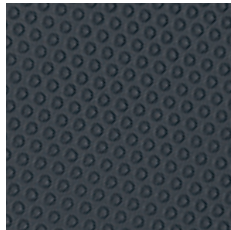
46 dark brown



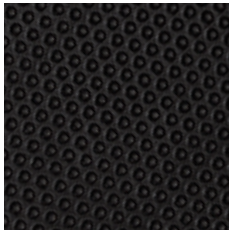
81 black



56 stone grey



80 anthracite



81 black



17 grey beige



46 dark brown



81 black

Hardness:

approx. 45 Shore A

Density:

approx. 0.40 g/cm³

▼ PROFILE: 09 COARSE CROSS PATTERN

Format:

approx. 820x510 mm // 32.2" x 20.1"

Colours:

46 dark brown

81 black

Thicknesses:

6 | 8 mm

▼ PROFILE: 87 MINI NON-SLIP

Format:

approx. 820x510 mm // 32.2" x 20.1"

Colours:

56 stone grey

80 anthracite

81 black

Thicknesses:

6 | 8 mm

Format:

approx. 800x485 mm // 31.5" x 19.1"

Colour:

81 black

Thickness:

4 mm

▼ PROFILE: 96 BLOCK FINE

Format:

approx. 840x510 mm // 33.1" x 20.1"

Colours:

17 grey beige

46 dark brown

81 black

Thicknesses:

4 | 6 | 8 mm

nora® Astro Soft profile 96 block fine is the ideal outsole for elegant and sporty footwear. The non-directional "nora" in the profile makes this soling sheet a branded product with recognition factor.

Soling sheets

nora® Astrolight are anti-slip soling sheets made of expanded rubber. When developing the **Astrolight** grade, particular attention was directed to maintain the known good properties of **Astro** and at the same time to reduce the weight of the material.

The result: **nora® Astrolight** has a weight which was reduced by approx. 20%. Low weight, excellent abrasion and extraordinary resilience make **Astrolight** the soling sheet for sophisticated demands in repair, shoe finishing, and production of flexible footwear.

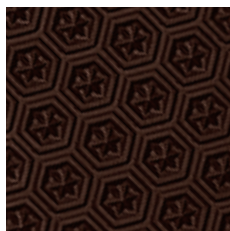
nora® Astrolight Star



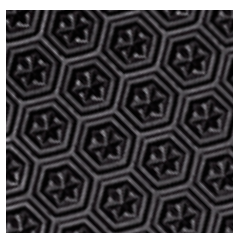
09 white



19 stone



46 dark brown



81 black

Hardness:

approx. 50 Shore A

Density:

approx. 0.50 g/cm³

▼ PROFILE: 64 STAR

Format:

approx. 940x535 mm // 37.0"x21.1"

Colours:

09 white
19 stone
46 dark brown
81 black

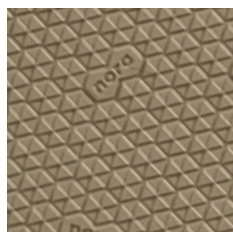
Thicknesses:

4 | 6 mm

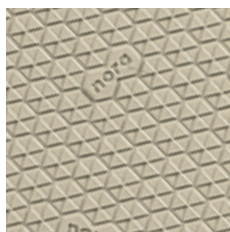
nora® Astrolight Delta



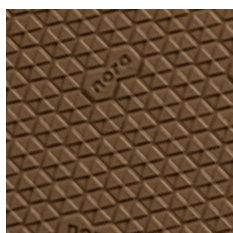
09 white



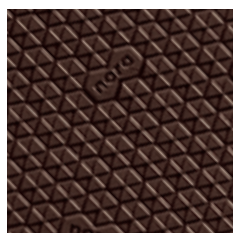
17 grey beige



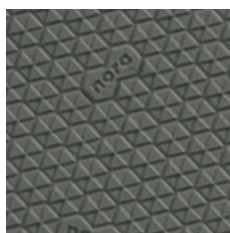
19 stone



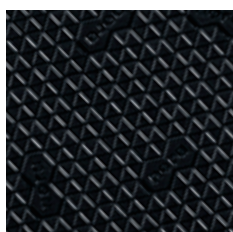
41 pale brown



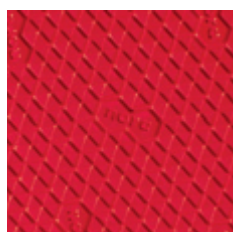
46 dark brown



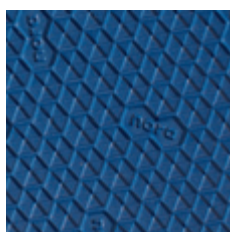
56 stone grey



81 black



89 red



352 jeans blue

Hardness:

approx. 50 Shore A

Density:

approx. 0.50 g/cm³

▼ PROFILE: 95 DELTA

Format:

approx. 950x535 mm // 37.4"x21.1"

Colours:

09 white
17 grey beige
19 stone
41 pale brown
46 dark brown
56 stone grey
81 black
89 red
352 jeans blue

Thicknesses:

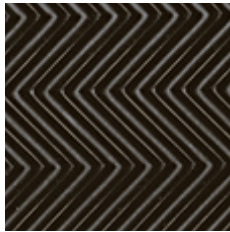
4 | 6 mm

The profile 95 delta means an extraordinary look and safe tread. The small triangles of the profile are arranged to form a hexagon. The brand **nora®** harmoniously and non-directionally fits into the product range.

nora® Astro are anti-slip soling sheets made of expanded rubber. With its low specific weight and its high slip- and abrasion-resistance, this soling grade is thus in particular suitable for use in orthopaedic shoes, shoe finishings, and demanding shoe repairs.

The colours of the **nora® Astro** range are matched to the colours of the **nora®** EVA materials and can be ideally combined.

nora® Astro



57 smoke



81 black

Hardness: approx. 50 Shore A
Density: 0.65 g/cm³

▼ PROFILE: 58 COARSE WAVE

Format:
 approx. 1020 x 880 mm // 40.2" x 34.6"

Colours: 57 smoke
 81 black
Thickness: 6 mm



57 smoke



81 black



101 leather brown

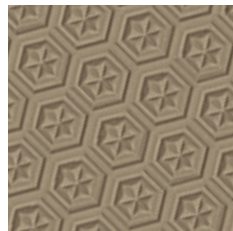
▼ PROFILE: 62 MEDIUM CREPE

Format:
 approx. 880 x 510 mm // 34.6" x 20.1"

Colours: 57 smoke
 81 black
 101 leather brown
Thickness: 6 mm



09 white



17 grey beige

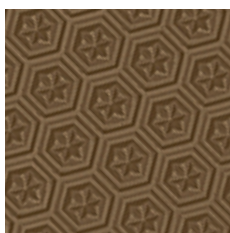


19 stone

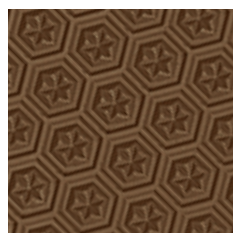
▼ PROFILE: 64 STAR

Formats:
 approx. 860 x 500 mm // 33.9" x 19.7"
 approx. 880 x 510 mm // 34.6" x 20.1"

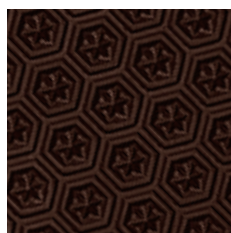
Colours: 09 white
 17 grey beige
 19 stone
 35 medium brown
 41 pale brown
 46 dark brown
 56 stone grey
 78 dark blue
 81 black
Thicknesses: 4 | 6 mm



35 medium brown



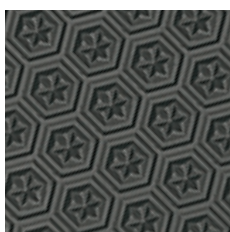
41 pale brown



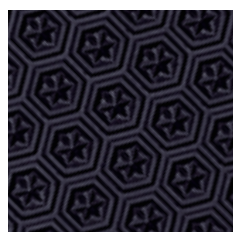
46 dark brown

Format:
 approx. 880 x 510 mm // 34.6" x 20.1"

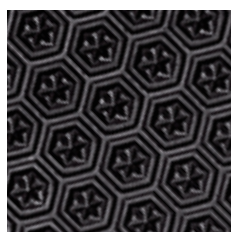
Colour: 81 black
Thickness: 8 mm



56 stone grey

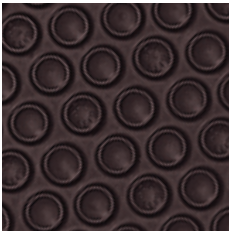


78 dark blue

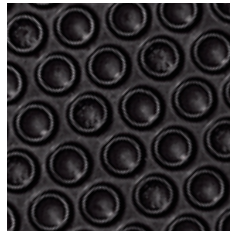


81 black

nora® Astro



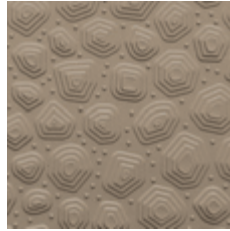
57 smoke



81 black



09 white



17 grey beige



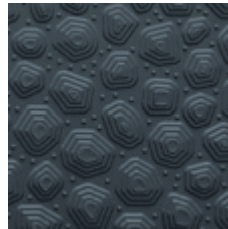
19 stone



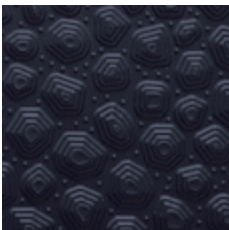
46 dark brown



56 stone grey



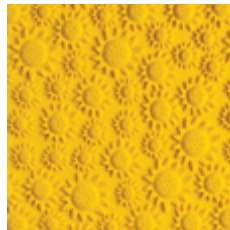
80 anthracite



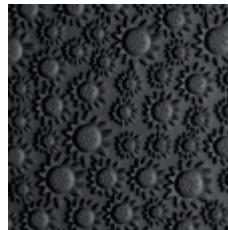
81 black



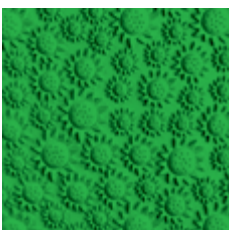
60 bright grey



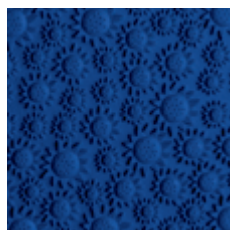
70 yellow



81 black



368 grass green



376 deep blue

▼ PROFILE: 65 SUCTION CUP

Format:

approx. 1020x880 mm // 40.2" x 34.6

Colours:

57 smoke
81 black

Thicknesses:

5 | 6 mm

▼ PROFILE: 110 GEO

Format:

approx. 880x510 mm // 34.6" x 20.1"

Colours:

09 white
17 grey beige
19 stone
46 dark brown
56 stone grey
80 anthracite
81 black

Thicknesses:

4 | 6 mm

The profile 110 GEO is non-directional, has good grip, is multilayered and is spread over four to five different profile levels. Due to the making of the profile stones and dirt do not stick to the sole.

▼ PROFILE: 111 SUNFLOWER

Format:

approx. 910x520 mm // 35.8" x 20.5"

Colours:

60 bright grey
70 yellow
81 black
368 grass green
376 deep blue

Thickness:

5 mm

The nora® Astro Sunflower profile 111 is modern, has good grip, is multilayered and offers safe tread. The non-directional design of the individual elements means that this soling sheet is very versatile in its usage. The type of profile prevents stones and dirt from getting stuck.

nora® Astral are soling sheets made of transparent compact rubber for both sole and heel areas. The **Astral** grade is extremely wear- and slip-resistant and is characterised by a high level of extensibility. Thanks to the resilient special mixture with a hardness of approx. 69 Shore A, an excellent walking comfort is obtained.

nora® Astral is suitable both for high-quality repairs and for use as outsoles for orthopaedic shoe finishing and orthopaedic shoes. The variety of profiles and colours facilitates optimum adaptation to any shoe type and any season.

nora® Astral



03 honey



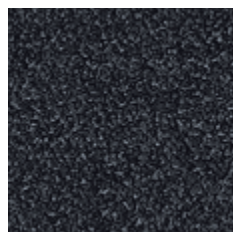
09 white



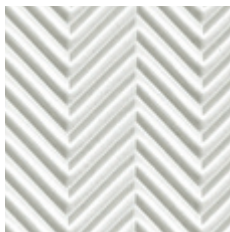
15 pebble



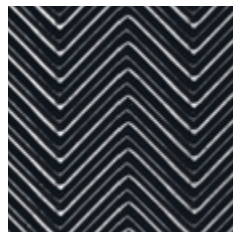
54 smoke



81 black



09 white



81 black



03 honey



43 mud



54 smoke



81 black

Hardness:

approx. 69 Shore A

▼ PROFILE: 26 FINE CREPE

Format:

approx. 1070 x 770 mm // 42.1" x 30.3"

Colours:

03 honey
09 white
15 pebble
54 smoke
81 black

Thickness:

1.8 mm

nora® Astral profile 26 fine crepe in the thickness of 1.8 is particularly suitable to produce dished edges.

▼ PROFILE: 58 COARSE WAVE

Format:

approx. 930 x 800 mm // 36.6" x 31.5"

Colours:

09 white
81 black

Thicknesses:

4 mm

81 black

6 mm

▼ PROFILE: 62 MEDIUM CREPE

Format:

approx. 1000 x 550 mm // 39.4" x 21.7"

Colours:

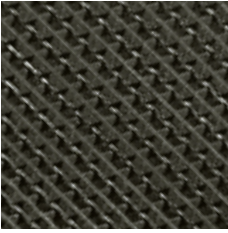
03 honey
43 mud
54 smoke
81 black

Thicknesses:

4 | 6 mm

4 | 6 | 8 mm

nora® Astral



54 smoke

▼ PROFILE: 74 DOUBLE SAW TOOTH

Format:

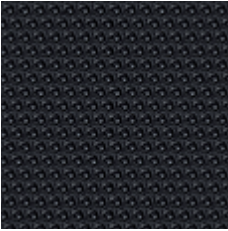
approx. 1070 x 770 mm // 42.1" x 30.3"

Colour:

54 smoke

Thickness:

5 mm



81 black

▼ PROFILE: 87 MINI-NON-SLIP

Format:

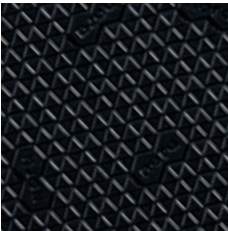
approx. 1070 x 770 mm // 42.1" x 30.3"

Colour:

81 black

Thickness:

3 mm



81 black

▼ PROFILE: 95 DELTA

Format:

approx. 790 x 465 mm // 31.1" x 18.3"

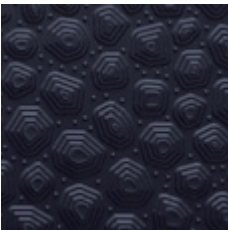
Colour:

81 black

Thicknesses:

2.5 | 4 | 6 mm

nora® Astral profile 95 delta means an extra-ordinary look and safe tread. The small triangles of the profile are arranged to form a hexagon. The brand nora® harmoniously and nondirectionally fits into the product range.



81 black

▼ PROFILE: 110 GEO

Format:

approx. 790 x 460 mm // 31.1" x 18.2"

Colour:

81 black

Thicknesses:

4 | 6 mm

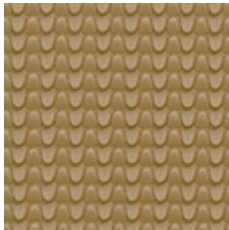
The 110 GEO profile is non-directional, multilayered, has good grip and is spread over four to five different profile levels. The type of profile prevents stones and dirt from getting stuck.

nora® Durotrans are soling sheets made of transparent compact rubber with prominent profiles for both sole and heel areas. The Durotrans grade is extremely wear- and slip-resistant and possesses excellent abrasion values and a high level of flexibility. Thanks to the resilient special mixture with a hardness of approx.

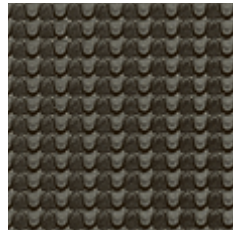
69 Shore A, an excellent walking comfort is obtained.

nora® Durotrans is suitable both for high-quality repairs and for use as outsoles for orthopaedic shoe finishing and orthopaedic shoes. The variety of profiles facilitates optimum adaptation to any shoe type and any season.

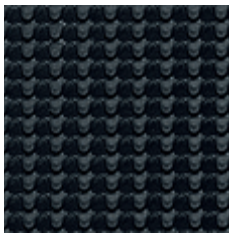
nora® Durotrans



03 honey



54 smoke



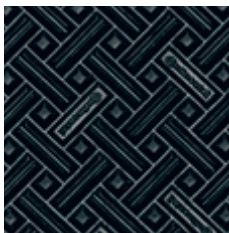
81 black



81 black



101 leather brown



81 black

Hardness:

approx. 69 Shore A

Format:

approx. 800x500 mm // 31.5" x 19.7"

▼ PROFILE: 34 GRID

Colours:

03 honey
54 smoke
81 black

Thicknesses:

4 | 6 mm

▼ PROFILE: 36 SQUARE

Colours:

81 black
101 leather brown

Thicknesses:

4 | 6 mm

▼ PROFILE: 37 PRISM

Colour:

81 black

Thicknesses:

4 | 6 mm

nora® Contol A



81 black

Hardness:
approx. 70 Shore A

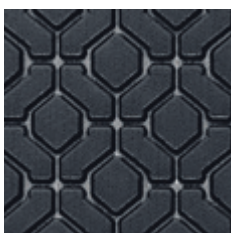
Format:
approx. 1000 x 800 mm // 39.4" x 31.5"

▼ **PROFILE: 42 CLIMBER SMALL**

Colour: 81 black
Thickness: 5 mm

nora® Contol A is an abrasion-resistant soling sheet made of oil- and petrol-resistant special rubber mixture with antistatic properties for the repair of working shoes with corresponding requirements.

nora® Contol FB



81 black

Hardness:
approx. 64 Shore A

Format:
approx. 800 x 500 mm // 31.5" x 19.7"

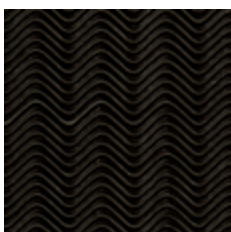
▼ **PROFILE: 48 BLOCK**

Colour: 81 black
Thicknesses: 5 | 6.5 mm

nora® Contol FB is an extremely slip-resistant special grade. This soling sheet is oil-, petrol-, and grease-resistant. The enormous slip-resistance is achieved by the open, bevelled profile with drainage to remove liquids.

nora® Contol FB is especially suited for working shoes in wet areas, i.e. for walking on tile floors in connection with liquids, in particular in grease-contaminated rooms such as e.g. kitchens or dairies.

nora® Constant



51 black brown

Hardness:
approx. 88 Shore A

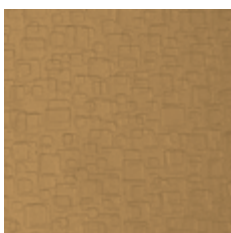
Format:
approx. 810 x 640 mm // 31.9" x 25.2"

▼ **PROFILE: 82 FINE WAVE**

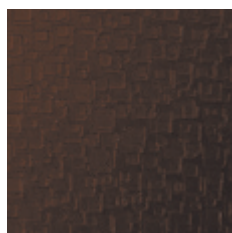
Colour: 51 black brown
Thicknesses: 2 | 3 mm

nora® Constant is a classic solid soling sheet with a timeless wave pattern and excellent bonding properties.

nora® Por



26 leather brown



48 antique

Hardness: approx. 93 Shore A
Density: approx. 1.00 g/cm³

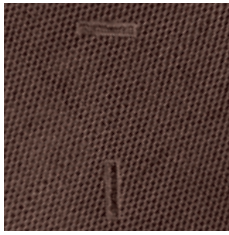
Format:
approx. 1040 x 520 mm // 40.9" x 20.4"

▼ **SURFACE: 67 STRADA**

Colours: 26 leather brown
Thicknesses: 2.7 | 3.5 | 4.3 mm
48 antique

nora® Por is a semi-expanded soling sheet for special use as "artificial" bottom leather for ladies' and men's shoes. This soling sheet has a long life, good bonding properties, and offers weight benefits as compared to solid soling sheets.

nora® Contilit



51 black brown



81 black



101 leather brown

Hardness:

approx. 87 Shore A

▼ **PROFILE: 32 BRILLANT**

Format:

approx. 1000x800 mm // 39.4"x31.5"

Colours:

51 black brown

81 black

101 leather brown

Thicknesses:

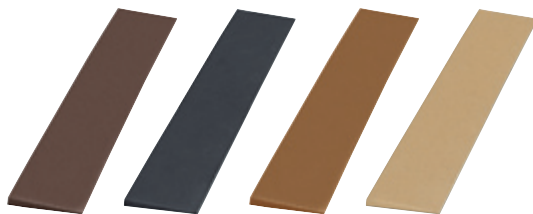
1.8 | 2.7 | 3.5 | 4.3 mm

1,8 | 2,7 | 3,5 mm

nora® Contilit is a fine-profiled soling sheet for stylish repairs and can be ideally combined with the heel piece or heel sheet nora® Elite.

Heeling strips

nora® Contilit K



51
black
brown

81
black

101
leather
brown

110
beige



51
black
brown

81
black

Hardness:

approx. 93 Shore A

▼ **SURFACE: SMOOTH**

Length:

approx. 1090 mm // 42.9"

Colours:

51 black brown

81 black

101 leather brown

110 beige

Dimensions:

3x35 mm // 0.12"x1.4"

4x40 mm // 0.15"x1.6"

▼ **PROFILE: 32 BRILLANT**

Length:

approx. 1000 mm // 39.4"

Colours:

51 black brown

81 black

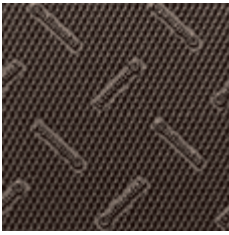
Dimension:

4x40 mm // 0.15"x1.6"

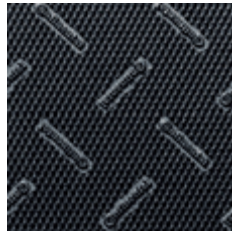
nora® Contilit K is the tried-and-tested heeling strip for the repair of smooth and slightly profiled shoe bottoms. Good bonding properties guarantee reliable heel repairs.

Heeling material

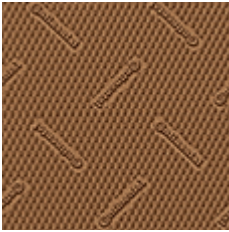
nora® Elite



51 black brown



81 black



101 leather brown



51 black brown

▼ PROFILE: 33 BRILLANT

Hardness:

approx. 93 Shore A

Format:

approx. 800x500 mm // 31.5" x 19.7"

Colours:

51 black brown

81 black

Thicknesses:

5 | 6 mm

101 leather brown 5 mm

with stabilising pad:**Hardness:**

approx. 90 Shore A (tread surface)

Format:

approx. 800x500 mm // 31.5" x 19.7"

Colours:

51 black brown

101 leather brown

Thickness:

6 mm

nora® Elite profile 33 is a fine-profiled heel sheet for stylish repairs. The non-directional profile makes this heel sheet a branded product with recognition factor.

Properties:

partially with stabilising pad, sanded back.

▼ PROFILE: 37 PRISM

Hardness:

approx. 90 Shore A (tread surface)

Format:

approx. 800x500 mm // 31.5" x 19.7"

Colour:

51 black brown

Thicknesses:

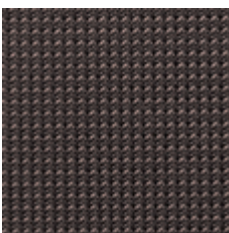
6 | 7.5 mm

nora® Elite profile 37 is a coarse-profiled heel sheet with winter profile for a safe foothold.

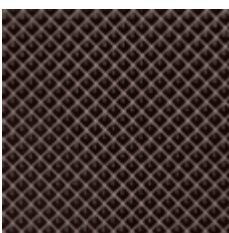
Properties:

6 mm version with stabilising pad, sanded back.

nora® Glorit



51 black brown



51 black brown

▼ PROFILE: 39 FRESKO

Hardness:

approx. 93 Shore A

Format:

approx. 800x500 mm // 31.5" x 19.7"

Colour:

51 black brown

Thickness:

5.5 mm

nora® Glorit profile 39 is an elegant heel sheet with a particularly fine profile.

▼ PROFILE: 05 PYRAMID MEDIUM

Hardness:

approx. 93 Shore A

Format:

approx. 770x535 mm // 30.3" x 21.1"

Colour:

51 black brown

Thickness:

6 mm

nora® Glorit profile 05 is a classical heel sheet with a medium pyramid profile for a safe tread.

nora® Conrex



81 black

▼ PROFILE: 47 GRIP CT

Hardness:
approx. 95 Shore A

Format:
approx. 500x330 mm // 19.7"x 13.0"

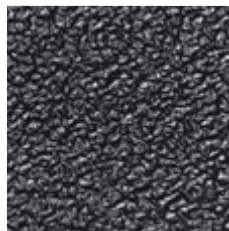
Colour: 81 black **Thickness:** 5.7 mm

nora® Conrex is a very hard and at the same time resilient small sheet made of compact rubber and is above all ideally suited for small heel tread surfaces of ladies' shoes.

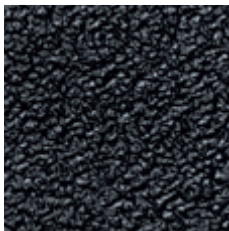
nora® Astral H



11 sand



54 smoke



81 black

▼ PROFILE: 62 MEDIUM CREPE

Hardness:
approx. 87 Shore A

Format:
approx. 1000x550 mm // 39.4"x21.7"

Colours: 11 sand
54 smoke
81 black **Thickness:** 6 mm

nora® Astral H is a hard, resilient heel sheet made of transparent rubber with medium crepe profile. This grade is above all optimally suited for hollow heels.

nora® Comfort



51 black brown



81 black

▼ PROFILE: 06 CRISTAL

Hardness:
approx. 67 Shore A

Format:
approx. 770x535 mm // 30.3"x 21.1"

Colours: 51 black brown
81 black **Thickness:** 7 mm

nora® Comfort is a highly resilient heel sheet, excellently suited for special sizes and special shapes.

Properties:

highly resilient, wear-resistant, non-slip and shock-absorbing, high walking comfort thanks to a soft compound harmonisation, stable bottom required, sanded back.

Heel piece strips

nora® Astral H



11 sand



54 smoke



81 black

▼ PROFILE: 62 MEDIUM CREPE

Hardness:

approx. 87 Shore A

Length:

approx. 1000 mm // 39.4"

Widths:

55 | 72 | 85 mm // 2.2" | 2.8" | 3.3"

Colours:

11 sand
54 smoke
81 black

Thickness:

6 mm

nora® Astral H heel piece strips made of hard, resilient transparent rubber with medium crepe profile are excellently suited for any economic heel repair. The heel piece strips are made of the heel sheet nora® Astral H.

Die-cut pieces

nora® Elite



51 black brown



81 black



101 leather brown

PROFILE: 33 BRILLANT

Hardness:

approx. 90 Shore A (tread layer)

Thickness:

6 mm

Packaging unit:

1 kg in a box

Colour:

51 black brown

Sizes:

130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148

Colour:

81 black

Sizes:

130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148

Colour:

101 leather brown

Sizes:

138 | 140 | 142 | 144 | 146 | 148

nora® Elite is a stylish die-cut piece with stabilising pad for economic and durable repairs. This die-cut piece is the ideal complement of the nora® Contilit soling sheets.

Properties: with stabilising pad, sanded back.

nora® Kompakt K



51 black brown 81 black

▼ PROFILE: 13 RIPPLED

Hardness: approx. 87 Shore A **Length:** approx. 1070 mm // 42.1"

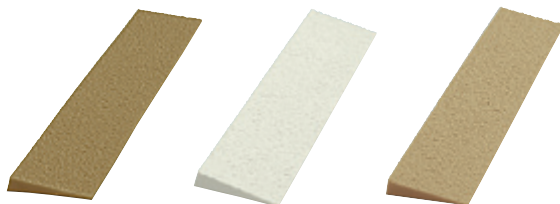
Colours: 51 black brown **Dimensions:** 8x40 mm // 0.3"x 1.6"
81 black

51 black brown 10x50 mm // 0.4"x 2.0"
81 black

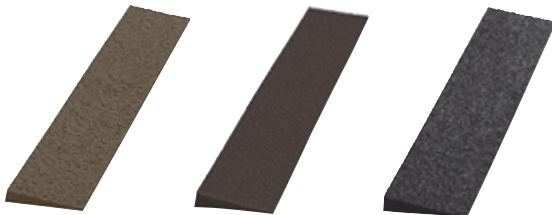
nora® Kompakt K are universally usable wedge strips.

Properties: wear-resistant, shock-resistant, excellent bonding properties.

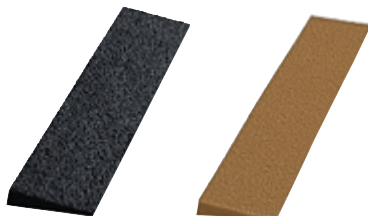
nora® Astral K



03 honey 09 white 15 pebble



43 mud 46 dark brown 54 smoke



81 black 101 leather brown

▼ PROFILE: 62 MEDIUM CREPE

Hardness: approx. 69 Shore A **Length:** approx. 930 mm // 36.6"

Colours: 03 honey **Dimensions:** 8x40 mm // 0.3"x 1.6"
54 smoke
81 black

03 honey 10x50 mm // 0.4"x 2.0"
15 pebble

43 mud
46 dark brown
54 smoke
81 black
101 leather brown

03 honey 10x60 mm // 0.4"x 2.4"
09 white

43 mud
46 dark brown
54 smoke
81 black
101 leather brown

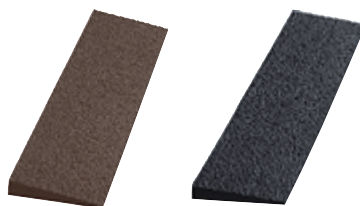
81 black 10x80 mm // 0.4"x 3.1"

81 black 14x65 mm // 0.5"x 2.6"

nora® Astral K are multi-purpose wedge strips with crepe profile, made of transparent rubber. nora® Astral K develops excellent stretch properties when bonded to soft bottoms (PU, EVA, and TR).

Properties: wear-resistant, shock-resistant, excellent bonding properties, high stretch properties.

nora® Astro K



46 dark brown 81 black

▼ PROFILE: 62 MEDIUM CREPE

Hardness: approx. 50 Shore A

Density: approx. 0.65 g/cm³ **Length:** approx. 1020 mm // 40.2"

Colours: 46 dark brown **Dimensions:** 10x60 mm // 0.4"x 2.4"
81 black

81 black 10x80 mm // 0.4"x 3.1"

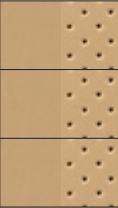

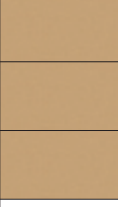











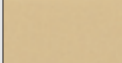
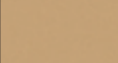
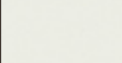
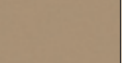


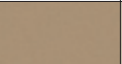













nora® Astro K are specifically lightweight wedge strips made of expanded rubber with crepe profile, in matching colours to nora® Astro soling sheets.

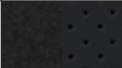


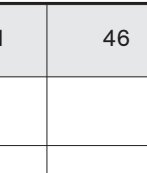




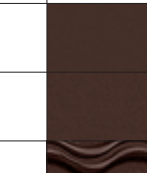








Properties: wear-resistant, shock-resistant, excellent bonding properties.

Expanded sheet product range

► This overview lists the standard colours which can be ideally combined.

For further coloured and patterned versions, e.g. of **nora® Lunasoft SL color**, please see the corresponding product pages.

Material	Version/profile	Colour	05	07	09	17
Lunairmed						
Lunairflex						
Lunalastik						
Lunasoft SLW						
Lunasoft SL						
Lunasoft AL						
Lunatec SE						
Lunalight A						
Lunacell						
Lunalight K	wedge strips					
Lunasoft SLW	wedge strips					
Lunasoft	78 Coarse wave					
Lunasoft	97 Pastille					
Astro Soft	09 Coarse cross pattern					
Astro Soft	87 Mini Non-Slip					
Astro Soft	96 Block fine					
Astrolight	64 Star					
Astrolight	95 Delta					
Astro	58 Coarse wave					
Astro	62 Medium crepe					
Astro	64 Star					
Astro	110 Geo					
Astro	111 Sunflower					
Astro	65 Suction cup					
Astro K	62 Medium crepe wedge strips					

19	35	41	46	54/57	56	60	78	80	81	Details/Page
										11
										11
										12
										18
										19
										21
										21
										22
										23
										30
										30
										32
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										35
										36
										36
										36
										45

Transparent sheet product range

	Colour	03	09	11	15	43	46	54	81	101	Details/ Page
Material	Version/profile										
Astral	26 Fine crepe										37
Astral	58 Coarse wave										37
Astral	62 Medium crepe										37
Astral	74 Double saw tooth										38
Astral	87 Mini Non-Slip										38
Astral	95 Delta										38
Astral	110 Geo										38
Durotrans	34 Grid										39
Durotrans	36 Square										39
Durotrans	37 Prism										39
Astral H	62 Medium crepe										43
Astral H	62 Medium crepe heel piece strips										44
Astral K	62 Medium crepe wedge strips										45

Warming and cooling times of composite sheets

	Warming time min.	Cooling time min.		Warming time min.	Cooling time min.
Lunatec combi 1	6	12	Lunatec combi cork 1	5	10
Lunatec combi 2	9	18	Lunatec combi CW	5	10
Lunatec combi 3	9	18	Lunatec combi motion 1	5	10
Lunatec combi 4	5	10	Lunatec combi T1	8	16
Lunatec combi 5	3	6	Lunatec combi motion T2	9	18
Lunatec combi 6	6	12			
Lunatec combi 7	5	10			
Lunatec combi 8	6	12			

The times given here are proven reference values based on a constant temperature of 130° C // 266° F. These times can deviate dependent upon the oven, temperature precision, how often the door is opened and personal experiences.

Setting of the oven 130° C // 266° F

Rule of thumb: Warming time x factor 2
= optimum cooling time

Questions? Please contact us!

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