

Materials for Prosthetics & Orthotics

High quality, functional materials for sensitive application areas

nora® materials of EVA and expanded rubber are high quality, functional, closed cellular materials, especially suited for sensitive application areas. Which is, in addition to orthopaedic shoe engineering also applications within prosthetics & orthotics.

The mostly **thermoformable materials** are optimal materials for direct contact on the body. The EVA materials exhibit excellent **thermoplastic mouldability** and **optimal bonding and grinding properties**, have been tested extensively for pollutants and **skin compatibility**, and are hygienically washable.

Depending on the patient, the clinical picture, treatment plan and desired function (e.g. high resilience, damping, load distribution, absorption of shear forces, shock absorption, compression elasticity, etc.) materials with different properties are being used. **nora®** materials are used in P&O as **cushioning in classical orthopaedic devices**, as soft-wall funnel-shaped sleeves in **prosthetics**, as **soft sockets**, as functional linings e.g. on **support orthotics** and **corsets**, and as **cushioning for insoles**.

The newest material is **nora® Lunatec motion** which comes with **great damping** properties and **load distribution** as well as **significant absorption of shear forces**. As a result, it is particularly suitable for **pressure sensitive areas**, that bear a lot of forces from the movement of the body.



Corset with Lunatec motion



Hand orthoses with Lunapur M



Soft socket (Lunairmed & Lunasoft SLW)



Hand orthoses with Aero sorb W



Support orthoses with Aero sorb M



Prosthetic liner with LunaPur M

nora® materials for Prosthetics & Orthotics

nora®

Excerpt from the comprehensive nora® range

All sheets are available in diverse thicknesses, sizes and colours

Function	Product	Hardness approx. Shore A	Density approx. g/cm ³	thermo- formable
cushioning	Astro form 8	-	0,20	110-130°C
cushioning	Astro med 10	10	0,27	No
cushioning / shear force	Lunatec motion 10	10	0,13	110-130°C
cushioning	Astro form 15	15	0,32	110-130°C
bedding / shockabsorbing	Aero sorb W	-	0,15	110-130°C
bedding / shockabsorbing	Aero sorb M	-	0,16	110-130°C
bedding	Lunairmed	16	0,08	110-130°C
bedding	Lunatur 18 Walnut	18	0,12	110-130°C
Bedding / shear force	Lunatec motion 20	20	0,18	110-130°C
bedding	Lunairflex	22	0,12	110-130°C
permanently resilient	Lunatec EP	22	0,20	110-130°C
permanently resilient	Lunalastik	25	0,23	110-130°C
permanently resilient	Lunatur 27 Walnut	27	0,24	110-130°C
permanently resilient	Lunasoft SLW	30	0,20	110-130°C
stabilising	Lunasoft SL	40	0,20	110-130°C
stabilising	LunaPur M	77	0,95	110-130°C
stabilising	Norit L	93	0,90	110-130°C

nora® Lunatec combi sheets are vulcanised composites of renowned qualities...

Lunatec combi 4	Lunairflex (approx. 3 mm)	22	0,12	120-130°C
approx. 9 mm	Lunalastik (approx. 6 mm)	25	0,23	heating 5 min cooling 10 min
Lunatec combi 5	Lunalastik (approx. 3 mm)	25	0,23	120-130°C
approx. 7 mm	Lunasoft SLW (approx. 4 mm)	30	0,20	heating 3 min cooling 6 min
Lunatec combi 7	Lunasoft SLW (approx. 3 mm)	30	0,20	120-130°C
approx. 7 mm	Lunasoft SL (approx. 4 mm)	40	0,20	heating 5 min cooling 10 min

Would you like to 'feel' our materials?

For single samples or our sample key chains that contain selected materials for applications within Prosthetics & Orthotics, simply email us to: info-shoe@nora.com.



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nora SYSTEMS GMBH
shoe components