SIMONA



SIMONA® SIMOLIFE EVA

Flexible Plastic Sheets for Orthopaedic Products

SIMONA® SIMOLIFE EVA flex/superflex – Dimensional stability, flexibility, skin compatibility





Owing to their inherent material properties, SIMONA® SIMOLIFE EVA Sheets are the perfect choice for applications in the field of orthopaedics technology. With EVA flex and EVA superflex, SIMONA has developed a product range that meets a wide range of requirements with regard to flexibility of the specific material.

Extruded from EVA, a copolymer of ethylene and vinyl acetate, the sheets combine outstanding formability with excellent dimensional stability.

SIMONA® SIMOLIFE EVA has been specially designed for the manufacture of inner sheaths used in arm and leg prosthetics.

In order to ensure the best possible fit for the amputee, a plaster mould is made of the limb in question prior to manufacturing the sheath. The sheets are heated in a convection or infrared oven and are then stretched seamlessly over a plaster mould by means of vacuum processing.

Certificates

- Proof of biocompatibility:
 - Cytotoxicity testing in accordance with DIN EN ISO 10993 Part 5
 - Irritation and hypersensitivity testing in accordance with DIN EN ISO 10993 Part 10
- Physiological safety according to BfR, EU and FDA

SIMONA® SIMOLIFE EVA flex/superflex – Product range and properties

Product range

Colour

		SIMONA® SIN EVA fle		SIMONA® SIMOLIFE EVA superflex
Extruded	sheets (size/thi	ckness in mm)		
$\overline{}$	400 x 400	3, 4, 6, 8, 9, 10, 12, 15	6, 8, 10, 12	6, 9, 10, 12, 15
	2000 x 1000	3, 4, 6, 8, 9, 10, 12, 15	-	-

Bold type = available immediately; light-faced type = available on request Customised sizes and sheets with antibacterial properties available on request.

natural (translucent)



Excellent formability

SIMONA® SIMOLIFE EVA Sheets have excellent hot-forming properties. The material displays minimal shrinkage during cool-down, thus ensuring a high level of dimensional stability with uniform wall thickness distribution as well as best possible fit.



skin-coloured

natural (translucent)

An inner sheath made of SIMONA® SIMOLIFE EVA combines the benefits of good adhesive properties with comfortable fit ("soft touch"). With properties including biocompatibility in accordance with DIN EN ISO 10993-5/-10 and resistance to sweat, cosmetics, skin creams and disinfectants, they offer excellent safety and extreme durability.

More than 35 years' experience

Acknowledged for its consistently high quality, SIMONA has been a trusted partner to the orthopaedic technology sector for many years. Regular audits and endurance tests are a valuable source of information for ongoing product development and refinement by our R&D engineers. This provides the basis for an innovative, premium-quality product range.



SIMONA® SIMOLIFE EVA flex/superflex – Material specifications

	SIMONA® SIMOLIFE EVA flex	SIMONA® SIMOLIFE EVA superflex
Density, g/cm³, DIN EN ISO 1183	0.934	0.955
Tensile modulus of elasticity, MPa, DIN EN ISO 527	75	19
Shore hardness D, DIN EN ISO 868	39	29
Crystalline melting range, °C, DSC (10 °C/min)	> 60	> 60
Heat-up temperature, °C (oven temperature)	150 - 160	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)	approx. 2	approx. 2
Biocompatibility in accordance with DIN EN ISO 10993-5/-10	V	V
Physiological safety in accordance with BfR, EU and FDA	V	~

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