

SILPURAN® Film 2030 250/20

Product description

SILPURAN® Film 2030 250/xxx is an exceptionally skin-compatible protective film made from cross-linked silicone rubber, specially developed for the healthcare industry.

The ultrathin film is showing constant electrical resistance and good comparative tracking resistance across a broad range of temperatures.

The width is 250 mm and thickness is given in µm (xxx).

Properties

SILPURAN® Film possesses all familiar properties of SILPURAN® product range. It fulfills the highest medical standards.

- biocompatible
- chemically stable
- resistant to heat
- flexible at low temperatures
- transparent
- permanently elastic

Application

- Wound dressings
- Gas and water permeable membrane in medical devices and prosthesis
- Dielectric layer in electroactive polymers for sensors, actuators or generators

Processing

SILPURAN® Film can be processed by technologies like die cutting, laser cutting or water jet cutting. It can be glued with standard silicone adhesives.

Storage

Minimum temperature allowed during storage and transportation:

0 °C

Maximum temperature allowed during storage and transportation:

40 °C

Packaging

SILPURAN® Film is available in a variety of thicknesses. Our standard portfolio offers film layers from 20 µm to 400 µm. Further thicknesses can be supplied upon request.

The delivery takes place in rolls and sheets. Any form is delivered on a PET carrier.

Dimensions of film roll stock:

10 m² \triangleq 40 running meter x 250 mm

20 m² \triangleq 80 running meter x 250 mm

Roll stock has an inner diameter of 3'' (\triangleq 7,62 cm)

Film sheets have the dimension 210 mm x 250 mm; delivery in cartons with 20 sheets each.

Additional information

SILPURAN® Film is manufactured and packed under cleanroom conditions, class 8. Cutting and packing of film sheets are done in a clean environment but outside the cleanroom.

Safety notes

Not applicable; product is already fully cured.

Product data

Typical general characteristics	Inspection Method	Value
Hardness Shore A	DIN ISO 7619-1	27
Tensile strength	DIN 53504 S 1	6,0 N/mm ²
Tear strength	ASTM D 624 B	10 N/mm
Elongation at break	DIN EN ISO 527-3	450 %
Compression set (22h, 100 °C)	DIN ISO 815-B	5 %
Water vapor permeability	JIS 1099 A 1	3000 g/m ² /24h at 20 µm
Water vapor permeability	JIS 1099 A 1	1200 g/m ² /24h at 50 µm
Water vapor permeability	JIS 1099 A 1	800 g/m ² /24h at 100 µm
Gas permeability (selectively)	DIN 53536	CO ₂ /N ₂ 10:1
Biocompatibility (USP class VI)	ISO 10993	yes

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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