



ELASTOSIL® Film 2030 250/200

Product description

ELASTOSIL® Film 2030 250/xxx is a high-precision silicone film from cross-linked silicone rubber. The film shows a maximum thickness variation across the total width less than $\pm 5\%$. The precision allows a constant electrical resistance and good comparative tracking resistance across a broad range of temperatures. The width is 250 mm and thickness is given in μ m (xxx).

Properties

ELASTOSIL® Film has got the outstanding mechanical and physical properties of platinum cured silicone.

- high and selectively gas and water vapor permeable
- high temperature resistant and low temperature flexible
- high dielectric strength combined with a high specific resistivity
- optical transparent
- constant mechanical and electrical properties over a wide range of temperatures and operating time
- solvent free

Application

- dielectric film in EAP applications for sensors, actuators and generators
- functional membranes
- optical layers/interlayers
- protective films
- functional packaging

Processing

ELASTOSIL® Film can be processed by conventional technologies like die cutting, laser cutting or water jet cutting. It can be glued on a numerous of substrates

with standard silicone adhesives.
Silicone based conductive material is available.

Storage

Minimum temperature allowed during storage and transportation:

0°C

Maximum temperature allowed during storage and transportation:

40 °C

Packaging

ELASTOSIL® 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: $10 \text{ m}^2 \triangleq 40 \text{ running meter x } 250 \text{ mm}$ $20 \text{ m}^2 \triangleq 80 \text{ running meter x } 250 \text{ mm}$

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

Additional information

ELASTOSIL® 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.

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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 %
Glass transition temperature		- 126 °C
Operating range		- 45 °C to 200 °C
Gas permeability (selectively)	DIN 53536	CO ₂ /N ₂ 10:1
Water vapor permeability	JIS 1099 A 1	3000 g/m²/24h at 20 µm
Water vapor permeability	JIS 1099 A 1	1200 g/m²/24h at 50 µm
Water vapor permeability	JIS 1099 A 1	800 g/m²/24h at 100 µm
Compression set (22h, 100 °C)	DIN ISO 815-B	5 %
Permittivity ε		2,8
Dielectric strength	VDE 0303	80 - 100 V/μm
Volume resistivity	DIN IEC 60093	10 ¹⁴ Ω cm

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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