

# SILPURAN® FILM 2030



## Silicone Films

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). xxx stands for

- 20 µm
- 50 µm
- 100 µm
- 200 µm
- 400 µm

## 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
- food contact application possible on request

## Specific features

- Biocompatible
- Electrically insulating
- FDA compliant
- Flexible at low (-40 °C) and high temperatures (+180 °C)
- Food-contact
- Gas permeable
- Highly transparent
- Precise

## Technical data

### Properties Cured

Cure conditions: 190°C 10min

Property	Condition	Value	Method
Permittivity	-	2.8	-
Hardness Shore A	-	27	DIN ISO 48-4
Tensile strength	-	6.0 N/mm <sup>2</sup>	ISO 37 type 1
Elongation at break	-	450 %	ISO 37 type 1
Compression Set <sup>(1)</sup>	22 h   100 °C	5 %	DIN ISO 815-1 type B method A
Gas permeability (selectively)	-	CO <sub>2</sub> /N <sub>2</sub> 10:1	DIN 53536
Water vapor permeability	24 h   20 µm	3000 g/m <sup>2</sup>	JIS 1099 A1
Water vapor permeability	24 h   50 µm	1200 g/m <sup>2</sup>	JIS 1099 A1
Water vapor permeability	24 h   100 µm	800 g/m <sup>2</sup>	JIS 1099 A1
Biocompatibility (USP class VI)	-	yes	ISO 10993
Tear strength	-	10 N/mm	ASTM D 624 B

<sup>1</sup>Cure conditions: 15 min / 165 °C in press, postcuring for 6 h / 200 °C in ventilated air.

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Store in a dry and cool place.

## Applications

- Health & Baby Care
- Medical

## Processing

### General

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

## Adhesion

Silicon Film can be glued to a numerous substrates with standard silicone adhesives. Depending on your requirements, ELASTOSIL® E43 can be the glue of choice.

Adhesion can generally be achieved and / or improved by using plasma boding.

## Cutting

Silicone Film can be processed by conventional technologies like die cutting, laser cutting or water jet cutting.

## Packaging and storage

### Packaging

SILPURAN® Film is available in a variety of thicknesses. Our standard portfolio offers film layers from 20 µm to 400 µm with standard thickness of

- 20 µm
- 50 µm
- 100 µm
- 200 µm
- 400 µm

The delivery is always on a PET carrier, either on a rolls or as sheets for sampling .

Dimensions and order sizes of the roll:

> 20 m<sup>2</sup> ≙ 80 linear meter x 250 mm width

The roll stock is supplied with an inner diameter of 3" (≙ 7,62 cm)

> 40 m<sup>2</sup> ≙ 80 linear meter x 500 mm width is available on request

Sheets have the dimension of 210 mm x 250 mm, delivered in boxes with 20 sheets each.

### Storage

Minimum temperature allowed during storage and transportation: 0 °C

Maximum temperature allowed during storage and transportation: 80 °C

## QR Code SILPURAN® FILM 2030



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

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