

PTFE SKIVED FILMS MODIFIED



SAINT-GOBAIN® offers a broad range of Skived Films. Skived PTFE Films are manufactured by **Saint-Gobain Performance Plastics Corporation**, Tape Solutions business, and come with high quality virgin PTFE resins or PTFE compounds and are intended to meet applications with the highest operational requirements. Full in-house processing includes mixing, molding, sintering, skiving and slitting, as well as ISO 9001 and ISO 14001 certifications, guaranteeing consistent, high product quality.

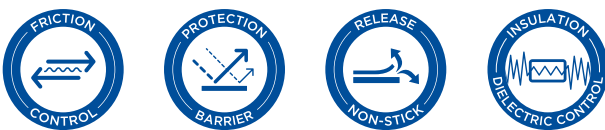
Skived Modified PTFE Films provide a perfect combination of long flex life, low permeability and friction as well as good insulation properties. The films have outstanding chemical resistance and conform to common food and pharma regulations. Skived Modified PTFE Films are particularly suitable for mechanically demanding applications where minimum polymer creep (cold flow) is required.

Skived Modified PTFE Films can be welded, offer very low permeability and show excellent performance in dynamic applications.

To complement the product offering a bondable version is available (best-in class etching on one or both sides).

**Previously known as*

CHEMFILM® PTFE SKIVED FILMS MODIFIED



FEATURES AND BENEFITS

- High purity due to usage of highest quality resins
- Continuous service temperature up to 260°C
- Superior etching for improved bondability
- Long flex life
- Low permeability and friction
- Very high insulation properties for electrical applications
- Conformity to common food and pharma regulations
- Outstanding, almost universal chemical resistance

*Pictures shown are for illustration purpose only.

AVAILABILITY

Skived Modified PTFE Films are available in widths up to 1700 mm and thickness down to 25 µm. A variety of standard dimensions is always available and kept in stock. Please contact the factory for further information, slit widths and minimum order quantities. Special thicknesses, widths or other requirements are available upon request.

APPLICATIONS

- Septa, cap and storage tank liners
- Pump and Valve Diaphragms
- Elastomer Laminates
- Gas & Liquid tight barrier in compensators and expansion joints
- Food baking and grilling
- High frequency circuit boards
- Wire & cable especially in high temperature and sensitive equipment
- Low friction & anti-squeak in automotive

TYPICAL PROPERTIES

Property	0200 Modified- PTFE	0200E Modified- PTFE, etched	0267 Antistatic Modified-PTFE	0267E Antistatic Modified- PTFE, etched	Test Method
Thickness	0.025 - 3.0 mm	0.025 - 1.5 mm	0.1 - 3.0 mm	0.1 - 1.5 mm	-
Surface tension, etched surface	N/A	≥ 45 mN/m	N/A	≥ 45 mN/m	DIN ISO 8296
Tensile Strength	≥ 25 N/mm ²	≥ 25 N/mm ²	≥ 25 N/mm ²	≥ 25 N/mm ²	DIN EN ISO 527 v = 50 mm/min microtensile specimen (according to ISO 13000)
Elongation at break*	≥ 400 %	≥ 400 %	≥ 300 %	≥ 300 %	DIN EN ISO 527 v = 50 mm/min microtensile specimen (according to ISO 13000)
Filler content	None	None	≤ 2	≤ 2	Thermal Gravimetric Analysis
Appearance/color	White	Brown*	Black	Black / Brown*	-

Property	Value	Test method
Density	2.13 - 2.19 g/cm ³	DIN EN ISO 1183-1
Surface finish	R _t ≤ 10 μm	DIN EN ISO 4288
Dielectric breakdown strength	40 - 100 kV/mm for unfilled materials	ASTM D-149 thickness 0.05-0,5mm
Ball indentation hardness 132/60**	28 N/mm ² for unfilled materials	DIN EN ISO 2039-1 thickness min 4mm
Coefficient of friction***	0.09 for unfilled materials; 0.11 for filled materials	-

The values presented are typical values and should not be used for specification purposes.

Contact your **Saint-Gobain** Tape Solutions representative for more information.

Special requirements (e.g. thickness or color) are available. All values, except surface tension, are measured on non-etched film/laminate with a thickness of > 0.1 perpendicular to molding direction.

*On etched side **Raw material manufacturer data ***Ball on Disc, Ø=6mm, v=10mm/s, F_N=2N, t=2h

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to your actions or inactions, including your use, design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: This document should not be considered a warranty or a guarantee. The descriptions of the Product provided hereinabove may vary based on specifications requested and testing protocols. Typically, Saint-Gobain warrants that product(s) will meet mutually agreed specifications at delivery and Saint-Gobain honors any breach of warranty claims for six (6) months from delivery of the products. If a product is determined to be nonconforming with its warranty, Saint-Gobain's sole obligation is, at its option, to either replace the nonconforming products or reimburse the purchase price for the same.

The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. **SAINT-GOBAIN DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE.**



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