



Skived UHMW-PE Films

Saint-Gobain offers a broad range of Skived Films. The process chain includes skiving and slitting which is certified according to IATF 16949 and ISO 9001, guaranteeing a consistent high product quality.

Skived UHMW-PE Films are commonly used in applications with general requirements, such as release, non-stick or improved mechanical robustness.

Skived UHMW-PE Films come with higher abrasion resistance, offering higher durability for mechanical stresses, whilst also providing self-lubricating properties similar to Skived PTFE Films. Their anti-stick surface and sound deadening properties make them a preferred choice for demanding applications.

Skived UHMW-PE Films are bondable without etching, e.g. through thermal activation or with the use of a bonding agent.



- Tank liners
- Elastomer Laminates
- Gas & Liquid tight barrier in storage tanks including those working at very low temperatures



- Release materials in industrial applications with high wear and abrasion



- Low friction & anti-squeak in automotive and industrial machinery

Typical Properties	Thickness [mm]	Tensile Strength [N/mm ²]	Elongation at break [%]	Filler content [% by weight]	Appearance/ Color
UHMW-PE, natural	0.075 - 1.5	≥ 30	≥ 180	None	White
UHMW-PE, black	0.075 - 1.5	≥ 30	≥ 180	< 5	Black
<i>Test Method</i>	-	<i>DIN EN ISO 527 v = 50 mm/min microtensile specimen (according to ISO 13000)</i>	<i>DIN EN ISO 527 v = 50 mm/min microtensile specimen (according to ISO 13000)</i>	<i>Thermal Gravimetric Analysis</i>	-

ADDITIONAL PROPERTIES Applies to all materials

Density [g/cm ³]	0.91 - 0.97	DIN EN ISO 1183-1
Surface finish [µm]	Rt ≤ 10	DIN EN ISO 4288
Dielectric breakdown strength* [kV/mm]	45 for unfilled materials	ASTM D-149 thickness 0.05 - 0.5 mm
Ball indentation hardness 132/60* [N/mm ²]	≥ 34 for unfilled materials	DIN EN ISO 2039-1 thickness min 4mm
Coefficient of friction**	0.10	

FEATURES & BENEFITS

- High abrasion resistance/durability
- Continuous service temperature up to 90°C
- Self-lubricating properties similar to PTFE
- Anti-stick surface
- Sound deadening
- Bondable without etching

AVAILABILITY

Skived PTFE Films are available in widths up to 1500 mm and thickness down to 75 µm. Please contact the factory for further information, slit widths and minimum order quantities. Special thicknesses, widths or other requirements are available upon request.

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes. Special requirements (e.g. thickness or color) are available. All values, except surface tension, are measured on film with a thickness > 0.1 perpendicular to molding direction.

*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 misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 6 months, Saint-Gobain warrants this product(s) to be free from defects in manufacturing. 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.

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