



CHEMFILM®

UHMW PE

Engineered for Demanding Applications

UHMW PE Film

CHEMFILM® UHMW PE film is a high quality abrasion resistant film engineered to meet the most rigorous industrial applications. It is more than 5 times abrasion resistant than stainless steel and has self-lubricating properties similar to PTFE.

Features/Benefits

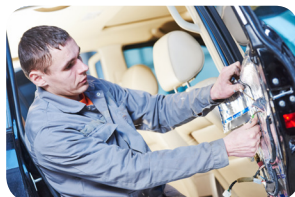
- Abrasion resistant anti-stick surface
- Self-lubricating
- Durable
- Sound deadening material
- Acceptable for direct food contact
- Continuous operating temperature up to 392°F (200°C)
- RoHS and REACH compliant

Availability

CHEMFILM® UHMW is supplied in widths up to 54" on industry standard 3" (76 mm) ID cores. It can also be supplied in narrow slit widths on jumbo traverse wound rolls with spliced lengths up to 6,000 linear yards. It is available in custom colors. Customized solutions available.

Applications

- Automotive window channel
- Sound deadening
- High wear surfaces
- Guide rails
- Work station surfaces



SAINT-GOBAIN

CHEMFILM® UHMW PE Film Properties

Performance tests are run using standard test procedures.

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

Properties	UHMW PE				
Thickness*	2.0 mil	3.0 mil	5.0 mil	10.0 mil	20.0 mil
Specific Gravity*	0.93-1.00 g/cm ³				
Long Tensile*	5,500 psi	6,000 psi	6,000 psi	6,000 psi	6,000 psi
Elongation*	200 %	300 %	300 %	300 %	300 %
Dielectric Strength**	45 kV/mm				
Surface Resistivity**	>10 ¹² Ω				
Melting Point DCS**	130-135 10K/min °C				
Ball Indentation Hardness 132/60, 30 sec value **	35 N/mm ²				
Hardness "Shore D", 15 sec value **	61				
Coefficient of Linear Thermal Expansion, 23-80°C**	2 10 ⁻⁴				
Coefficient of Friction at RT on mild steel**	Static: 0.15 - 0.20				
	Dynamic: 0.12 - 0.20				
Approximate Yield	101.0 ft ² /lb	68.0 ft ² /lb	40.5 ft ² /lb	20.2 ft ² /lb	10.1 ft ² /lb

*Property tested in house for lot certification.

**Property data according to raw material manufacturer.

CHEMFILM® is a registered trademark.



Saint-Gobain

AMERICAS
Tel: (800) 962-2666
(518) 686-7301

EUROPE
Tel: +44 (0) 1706-746900

ASIA
Tel: (886) 2-2503-4201

www.films.saint-gobain.com

AMERICAS: 14 McCaffrey Street, Hoosick Falls, NY 12090, USA

EUROPE: Bay 3 Transpennine Industrial Estate, Gorrels Way, Rochdale, OL11 2PX, UK

ASIA: Room 302,3F-1, 147 Jianguo North Road, Section 2, Taipei, Taiwan, 104

The data and details in this document were correct and up-to-date at the time of printing and are intended to provide information on our products and their possible applications. It is the user's responsibility to obtain the latest version of the product data sheet. This data sheet is not a specification and does not assure specific product characteristics or make reference to the suitability of the product for a specific application. Because Saint-Gobain cannot anticipate or control every application, we strongly recommend testing of this product under individual application conditions. The application, use and conversion of this product are the user's responsibility.

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse or inability to use this product(s).

SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

NOTE: Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform their own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.

©2017 Saint-Gobain Performance Plastics