



CHEMFILM[®] 

Flex Barriers FR01

Engineered for Demanding Applications

FR01 - Flex Resistance Modified PTFE

CHEMFILM[®] Flex Barriers FR01 films are manufactured from the highest quality virgin PTFE resins and are designed to meet demanding requirements of electrical, mechanical and industrial applications. Fully ISO 9001 certified process chain including molding, sintering, skiving and sodium-ammonia surface activation as well as the “Flex-Life” enhancement process guarantee consistent high product quality.

Features/Benefits

- High purity due to usage of highest quality resins
- Continuous service temperature up to 260°C
- Excellent release and dielectric properties
- Outstanding, almost universal chemical resistance
- Meets (or exceeds) ISO 13000-1:2005 Grade 1 classification properties
- Good welding properties
- Higher modulus and clearly reduced cold flow behaviour



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CHEMFILM® FR01 Properties

Performance tests are run using standard test procedures.

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

Typical Properties	FR01	Test Method
Surface tension - activated surface (mN/m)	≥ 44	DIN ISO 8296
Filler content (% by weight)	N/A	-
Density** (g/cm ³)	2,11 - 2,15	DIN EN ISO 1183-1
Tensile strength** (N/mm ²)	≥ 25	DIN EN ISO 527 v = 50 mm/min microtensile die
Elongation at break (%)	≥ 300	DIN EN ISO 527 v = 50 mm/min microtensile die
Coefficient of linear thermal expansion*, 10 ⁻⁵ K ⁻¹ 30 - 100 °C 30 - 200 °C 30 - 260 °C	12 14 17	DIN 53572

* Raw material manufacturer data.

Valid for CHEMFILM® FR01 untreated and with surface activation on one side in thicknesses ≥ 0,4 mm.

For information only - Data sheet updates will not be circulated.

Data are typical performance values of laboratory tests, must not be considered as specification for constructions.



Saint-Gobain Performance Plastics

www.films.saint-gobain.com

Saint-Gobain Performance Plastics

EUROPE

Am Nordkanal 37
47877 Willich
Germany
Tel: +49 (0) 2154 60 238

AMERICAS

14 McCaffrey Street
Hoosick Falls, NY 12090
USA
Tel: +1 800 962-2666

ASIA

7 Floor, Bund Center
222 Yan'an Road East
Shanghai 200002, China
Tel: +1 800 962-2666

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