



# CHEMFILM®

## Flex Barriers LP01

Engineered for Demanding Applications

## LP01 - Low Permeability Multi-layer Modified PTFE

CHEMFILM® Flex Barriers LP01 films are manufactured from the highest quality virgin PTFE resins and are designed to meet demanding requirements of dynamic, oscillating stresses in aggressive environments. Fully ISO 9001 certified process chain including molding, sintering, skiving and sodium-ammonia surface activation as well as the “Flex-Life” and barrier-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
- Low permeation rate and significantly reduced stretch void index
- Higher modulus and clearly reduced cold flow behaviour

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## CHEMFILM® LP01 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	LP01	Test Method
Surface tension - activated surface (mN/m)	≥ 44	DIN ISO 8296
Filler content (% by weight)	N/A	-
Density** (g/cm <sup>3</sup> )	2,11 - 2,15	DIN EN ISO 1183-1
Tensile strength** (N/mm <sup>2</sup> )	≥ 25	DIN EN ISO 527 v = 50 mm/min microtensile die
Elongation at break (%)	≥ 280	DIN EN ISO 527 v = 50 mm/min microtensile die
Coefficient of linear thermal expansion*, 10 <sup>-5</sup> K <sup>-1</sup> 30 - 100 °C 30 - 200 °C 30 - 260 °C	12 14 17	DIN 53572

\* Raw material manufacturer data.

Valid for CHEMFILM® LP01 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

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