

Data / Specification Sheet • Novus Uniflon 53

Novus Uniflon 53 is a high performance biaxially orientated PTFE sheet material with a barium sulphate filler.



Service

Novus Uniflon 53 is a general purpose grade for sealing applications across the whole pH range. It is suitable for use with hydrofluoric acid, but not pure liquid hydrogen fluoride. It can also be used with alkalis, solvents, fuels, water, steam and chlorine.

Temperature / Pressure

Maximum recommended service temperature 260°C.

Maximum recommended operating pressure 85 bar (1235psi).

The maximum temperature and pressure cannot necessarily be used simultaneously.

Approvals / Compliance

Conforms with FDA21 CFR 177.1550 regulations.

Availability

Thickness range:
0.75mm to 3.0mm

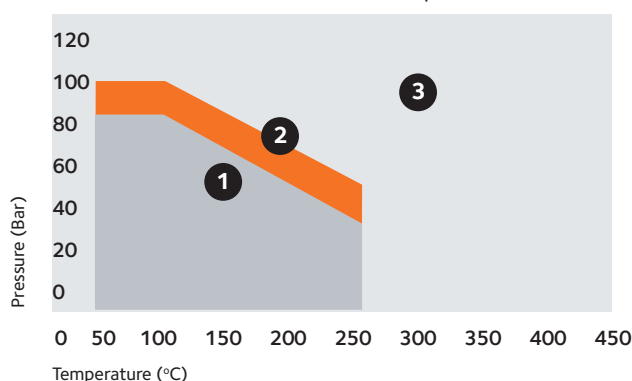
Standard sheet sizes:

- 1.0m x 1.0m
- 1.5m x 1.0m
- 2.0m x 1.0m
- 1.5m x 1.5m
- 2.0m x 1.5m
- 2.0m x 2.0m

Physical properties

Thickness		1.5mm
Density		3.0g/cc
Tensile Strength	ASTM F152	14MPa
Compression	ASTM F36	5%
Recovery	ASTM F36	40% min
Residual Stress	DIN @ 175°C	30MPa
Creep Relaxation	ASTM F38	21%
Gas Permeability	DIN 3535	<0.01cc/min
Liquid Leakage	ASTM F37	0.22ml/hr

Novus Uniflon 53 Pressure/Temperature Limits



- ① Suitable subject to chemical compatibility.
- ② Suitable in some cases but check your application requirements with Flexitallic.
- ③ Contact the Technical Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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