



PTFE Sealing Sheet
UNIFLON 51
Material Data Sheet



Description: Biaxially oriented PTFE, compression sheet material reinforced with a silica filler.

Color: Pink

Application: Intended for use with concentrated acids (except hydrofluoric acid) and with most of general aggressive chemicals. Uniflon 51 is suitable for all chemicals in a wide range pH (0 -14), also suitable for medium concentrations of alkalis. Meets the requirements of FDA regulations (Food and Drug Agency).

Cutting: Well machined cutting

Temperature resistance*: max. **260°C** min. **-196°C**

Pressure resistance*: max. **85 bar**

Thickness range: 0,75 – 3 mm

Dimensions of plates: 1,0 x 1,0 m, 1,5 x 1,0 m, 2,0 x 1,0 m, 1,5 x 1,5 m, 2,0 x 1,5 m, 2,0 x 2,0 m

Typical physical properties:

Marking acc. to	DIN 28 091-3	TF-M-O
Density [g/cm ³]		2,2
Tensile Strength [MPa]	ASTM F 152	15
Compressibility [%]	ASTM F 36	7
Recovery min. [%]	ASTM F 36	40
Residual stress [MPa]	DIN 52 913/175°C	30
Creep relaxation [%]	ASTM F 38	35
Spec. leakage rate [cm ³ /min]	DIN 3535	0,01
Seability, 50 psi [ml/hod]	ASTM F 37 A	1,8

Value valid for thickness 1,5 mm

*maximum temperature and pressure values can not be used simultaneously.

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