



PTFE Sealing Sheet
UNIFLON 53
Material Data Sheet



Description: Biaxially oriented PTFE, compression sheet material reinforced with barytes (barium sulphate)

Color: White

Application: Uniflon 53 is the preferred choice for sealing concentrated alkalis and is also compatible with Aqueous Hydrofluoric Acid below 49 %. Restricted resistance to concentrated mineral acids. 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-Z-O
Density [g/cm ³]		2,9
Tensile Strength [MPa]	ASTM F 152	15
Compressibility [%]	ASTM F 36	8
Recovery min. [%]	ASTM F 36	40
Residual stress [MPa]	DIN 52 913/175°C	28
Creep relaxation [%]	ASTM F 38	33
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.

The given data is intended for information only. The manufacturer holds no responsibility for failures arising from bad application of the product. Interference with this document are prohibited.