



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**

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

Thickness range: 0,75 – 3 mm

Dimensions of plates: 1,0x1,0m, 1,5x1,0m, 2,0x1,0m, 1,5x1,5m, 2,0x1,5m, 2,0x2,0m

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.

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