



**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:** 1,0 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 <sup>3</sup> ]		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 <sup>3</sup> /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.*