



PTFE Sealing Sheet  
**UNIFLON 50**  
Material Data Sheet



**Description:** Biaxially oriented PTFE, enhanced compressibility for better adaptation to surface of the flange achieved by the incorporation of hollow glass microspheres as the inorganic filler.

**Color:** Blue

**Application:** Sheet material specially designed for sealing flange joints of glass and ceramics, or plastic, or otherwise deformed uneven surfaces. Uniflon 50 is suitable for all chemicals in a wide range pH (0 -14), except molten alkali metals, fluorine gas and hydrogen fluoride. 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-G-O
Density [g/cm <sup>3</sup> ]		1,4
Tensile Strength [MPa]	ASTM F 152	14
Compressibility [%]	ASTM F 36	35
Recovery min. [%]	ASTM F 36	40
Residual stress [MPa]	DIN 52 913/175°C	25
Creep relaxation [%]	ASTM F 38	35
Spec. leakage rate [cm <sup>3</sup> /min]	DIN 3535	0,02
Seability, 50 psi [ml/hod]	ASTM F 37	0,6

*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.*