

DATA SHEET



PTFE (Polytetrafluoroethylene)

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Product Description:

This material provides the ultimate in chemical resistance, extremes of operating temperature, very low friction and superb electrical properties.

Applications:

Gaskets, chute linings, insulators, valve seats and 'O' rings.

Technical Data:

Colour:	White	(1) Only a few hours, with little or no load applied
Specific Gravity (ASTM D792):	2.2 - 2.3	
Water absorption saturation in water (ATSM D638):	0.02 %	
Tensile Strength (ATSM D638):	12 - 24 N/mm ²	(2) After these periods mechanical properties reduce by approx 50%. Note, however, that service temperatures are load and time dependant.
Tensile Modulus (ATSM D638):	340 - 638 N/mm ²	
Elongation (ATSM D638):	100 - 500 %	
Flexural Strength (ATSM D790):	97 - 99 N/mm ²	
Flexural Modulus (ASTM D790):	-	
Impact - Izod Notched [23 C, 50% RH, ATSM D256]	156 J/M	(3) Test specimen 1.6mm thick unless otherwise stated.
Hardness (Shore D):	60 -65	
Melt Point (D2117):	327°C	
Max allowable service temp in air		
- for short periods (1)	300°C	
- continuously for 20000hrs (2)	250°C	
Minimum service temperature	-260°C	
Linear thermal expansion coefficient (ATSM D696):	10 012 K ⁻¹ x 10 ⁻⁵	
Thermal Conductivity (ATSM C117):	0.26 W/K.M	
Flammability (ATSM D635):	Non Flammable	
UL (thickness in mm) [Tests carried out using UL - test methods by DSM EPP] (UL-94)	V - O	
Volume Resistivity (ATSM D257):	>1018 Ohm.cm	
Dielectric Strength (ATSM D149) (3)	>24 kv/mm	
Outside applications - UV resistance	A	
Acids - Strong [pH < 3]	A	
Alkalis - Strong [pH > 11]	A	
Chlorinated Hydrocarbons	A	
Hot Water	A	



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