



PTFE

This material provides the ultimate in chemical resistance, extremes of operating temperature, very low friction and superb electrical properties. Application: Gaskets, chute linings, insulators, valve seats, 'O' rings.

Tough / Flexible	Poor Creep Resistance	Very Low Coefficient of Friction
Natural White Colour	Wide Operating Range (-260°C to 250°C)	Excellent Chemical Resistance (ph 0-14)
Non-Stick Surface	Superb electrical/dielectric performance	

Technical Specification

Physical Properties	Test Method	Unit	Values
Colour	-	-	White
Specific Gravity	D 792	-	2.2 – 2.3
Water Absorption Saturation in Water	D 570	%	0.02
Tensile Strength	D 638	N/mm ²	12 – 24
Tensile Modulus	D 638	N/mm ²	340 – 638
Elongation	D 638	%	100 – 500
Flexural Strength	D 790	N/mm ²	97 – 99
Flexural Modulus	D 790	N/mm ²	-
Impact – Izod Notched (23°C, 50% RH)	D256	J/M	156
Rockwell Hardness	-	-	-
Melting Point	D 2117	°C	327
Max Allowable Service Temperature in Air	-	-	-
For Short Periods	-	°C	300
Continuously for 20000hrs	-	°C	250
Minimum Service Temperature	-	°C	-260
Linear Thermal Expansion Coefficient	D 696	K ⁻¹ x 10 ⁻⁵	10 – 12
Thermal Conductivity	C 117	W/K.M	0.26
Flammability	D 635	-	Non Flammable
UL Tests Carried Out	-	-	-
Volume Resistivity	D 257	Ohm.cm	>10 ¹⁸
Dielectric Strength	D 149	kv/mm	>24
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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