



PTFE

Properties - Mechanical	Test Methods	Units	Values
Density	ASTM D792	g/cm ³	2.14 - 2.18
Hardness - Shore D	ASTM D2240	Points	>= 55
Tensile strength	ASTM D4984	N/mm ²	>= 24
Elongation at break	ASTM D4984	%	>= 250
Compressive strength at 1% deformation	ASTM D695	N/mm ²	4 - 5
Deformation under load at room temperature : 24hrs @ 13.7 N/mm2	ASTM D621	%	14 - 17
Permanent deformation as above after releasing of 24hrs at room temperature	ASTM D621	%	7 - 9
Deformation under load at 260°C : 24hrs at 4.1 N/mm2	ASTM D621	%	30 - 32
Permanent deformation as above after releasing of 24hrs at room temperature	ASTM D621	%	17 - 19
Impact strength Izod	ASTM D256	J/m	153
Coefficient of friction (dynamic)	ASTM D1894	/	0.06
Wear factor (K)	ASTM D3702	cm ³ min 10 ⁻⁸ / kg m h	2900
PV Limit	/		
- at 3m/min	/	N/mm ² x m/min	2.4
- at 30m/min	/	N/mm ² x m/min	4.20
- at 30m/min	/	N/mm ² x m/min	5.70
Thermal Properties			
Service temperature	/		
- max	/	°C	260
- min	/	°C	-200
Flammability according to UL 94	UL 94	/	V-0
Thermal expansion coefficient (linear) 25 - 100°C	ASTM D696	10 ⁻⁵ / °C	12 - 13
Electrical Properties at 23°C			
Dielectric strength (specimen 0.5mm thick)	ASTM D149	kV/mm	20 - 40
Volume resistivity	ASTM D256	Ohm.cm	10 ¹⁸
Surface resistivity	ASTM D256	Ohm	10 ¹⁷

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