

TECHNICAL DATA SHEET

PTFE Standard Grade

Property	Method	Units	Specification
Physical			
Color	-	-	White
Specific gravity	ASTM D792	g/cm ³	2.130 – 2.190
Water absorption	ASTM D570	%	0.01
Flamability	UL 94		V-0
Mechanical			
Tensile strength	ASTM D4894	MPa	≥ 20
Elongation	ASTM D4894	%	≥ 200
Hardness	ASTM D2240	Shore D	≥ 54
Ball Hardness	ASTM D785	MPa	≥ 23
Compression strength at 1% deformation	ASTM D695	MPa	≥ 4
Deformation under load (140 Kg/cm ² for 24 hrs At 23 °C)	ASTM D621	%	10 - 13
Permanent deformation (after 24 hrs. Relaxation at 23 °C)	ASTM D621	%	6 – 7.5
Coefficient of static friction	ASTM D1894		0.08 – 0.10
Coefficient of dynamic friction	ASTM D1894		0.06 – 0.08
Wear factor K	ASTM D3702		2,900
Wear coefficient		Cm ³ min 10 – 8 Kg m h	20000 - 25000
Thermal			
Thermal conductivity	ASTM C177	W/m.K	0.34
Coefficient of linear thermal expansion from 25 to 100 °C	ASTM D696	10 ⁻⁵ /°C	12 - 15
Working condition		°C	-100 (-148 °F) / 250 (482 °F)
Electrical			
Dielectric strength	ASTM D149	kV/mm	≥ 30
Volume resistivity	ASTM D257	Ohm.cm	10 ¹⁸
Surface resistivity	ASTM D257	ohm	10 ¹⁷

