

100% Virgin PTFE Technical Data Sheet

Property	Standard	Value
Density	ASTM D792	2.16 - 2.20 g/cm ³
Water Absorption	ASTM D570	<0.01 %
Tensile strength	ASTM D638	≥200 kg/cm ²
Elongation	ASTM D638	≥300 %
Impact Strength, Izod, 23°C	ASTM D256	1.6 J/cm
Hardness	ASTM 785	50 – 55 Shore D
Compressive strength at 1% def.	ASTM D695	40– 50 kg/cm ²
Thermal conductivity	ASTM D2214	0.2 W/m. K
Coefficient of Thermal Expansion, 25 to 100 °C	ASTM E831	16 x 10 ⁻⁵ °C ⁻¹
Volume resistivity, at 50% RH	ASTM D257	≥10 ¹⁸ Ohm cm
Surface resistivity, at 50% RH	ASTM D257	≥10 ¹⁷ Ohm
Dielectric strength	ASTM D149	≥ 55 KV/mm
Safe Operating temperatures	-	- 50 to 200°C (biological, pharma, food applications) - 50 to 260°C (Non-bio/food/ pharma applications)
Coefficient of friction, static	ASTM D3028	≤0.09
Coefficient of friction, dynamic	ASTM D3028	≤0.05
Moisture / solvent absorption	-	Negligible
Combustibility	-	Non-combustible
Weather resistance	-	Excellent
Chemical resistance	-	Excellent, except for highly fluorinating agents

Disclaimer:

- The values given in the data sheet are for reference only.
- Customers are advised to test the suitability of our materials for their application as these values may not directly hold good under all complex / multiple application conditions.
- Our company does not undertake any liability, direct or indirect, linked with the usage and performance of our materials under application conditions.