



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR® PTFE - Extruded

Technical Data Sheet – Rods, Tubes

Properties	Test Method	Unit	Value
Density	ASTM D792	g / cm ³	2,14 – 2,18
Hardness – Shore D	ASTM D2240	/	≥ 50
Tensile Strength	ISO 527	N / mm ²	≥ 20
Elongation at break	ISO 527	%	≥ 200
Compressive Strength at 1% deformation	ASTM D695	N / mm ²	4 - 5
Deformation under load at room temperature after 24 hours at 13,7 N/mm ²	ASTM D621	%	≤ 17
Permanent deformation as above after 24 hrs of rest at room temperature	ASTM D621	%	≤ 8
Dynamic coefficient of friction	ASTM D3702	/	0,06
Service Temperature (min – max)	/	°C	- 200 / + 260
Thermal expansion coefficient (linear) 25 – 100 °C	Similar to ASTM D696	10 ⁻⁵ (mm/mm) / °C	12 - 13
Dielectric strength (specimen 0,5mm thick)	ASTM D149	KV / mm	≥ 20
Volume resistivity	ASTM D257	Ω * cm	10 ¹⁸
Surface resistivity	ASTM D257	Ω	10 ¹⁷

Note: The information contained herein are typical values intended for reference and comparison purposes only. They should not be used as a basis for design specifications or quality control. POLESTAR POLYMERS will not provide any legally binding guarantee of certain properties or any suitability.