



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR® PEEK

Technical Data Sheet - Rods, Sheets, Tubes

Properties	Method	Unit	Value
Density	DIN EN ISO 1183-1	g/cm ³	1,31
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3mm / 6mm)	UL 94		VO / VO
Yield stress	DIN EN ISO 527	MPa	110
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4000
Shore Hardness	DIN EN ISO 868	Scale D	88
Melting temperature	ISO 11357-3	°C	343
Thermal conductivity	DIN 52612-1	W / (m * K)	0,25
Thermal capacity	DIN 52612	kJ / (kg * K)	1,34
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	50
Service temperature - long term	Average	°C	-60 ... 250
Service temperature - short term (max)	Average	°C	310
Heat deflection temperature	DIN EN ISO 75, Verf.A, HDT	°C	152
Dielectric constant	IEC 60250		3,2
Dielectric dissipation factor, 50 Hz	IEC 60250		0,001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	4,9 * 10 ¹⁶
Surface resistivity	DIN EN 62631-3-2	Ω	10 ¹⁸
Dielectric strength	IEC 60243	kV / mm	20

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.

4, 5, 6, A wing, Meghdoot Indl. Estate, HDIL Industrial Park, Virar (E), Dist. Palghar - 401305, Maharashtra, India

TEL : +91 7798266778, +91 7517771196, +91 7507529482, +91 9168514741, 9021885586

Email : sales@polestarpolymers.com / polestarpolymers@hotmail.com