



**POLESTAR POLYMERS**

An ISO 9001 : 2015 Certified Company

# POLESTAR<sup>®</sup> PET

## Technical Data Sheet - Rods, Sheets, Tubes

Properties	Test Method	Unit	Value
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1,38
Water absorption	DIN EN ISO 62	%	0,3
Flammability (Thickness 3mm / 6mm)	UL 94		HB / HB
Yield stress	DIN EN ISO 527	MPa	85
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3000
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	2
Shore Hardness	DIN EN ISO 868	Scale D	84
Melting temperature	ISO 11357-3	°C	255
Thermal conductivity	DIN 52612-1	W / (m * K)	0,28
Thermal capacity	DIN 52612	kJ / (kg * K)	1,10
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	60
Service temperature - long term	Average	°C	-20 ... 115
Service temperature - short term (max)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf.A, HDT	°C	80
Dielectric constant	IEC 60250		3,4
Dielectric dissipation factor, 50 Hz	IEC 60250		0,001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 <sup>18</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>16</sup>
Comparative tracking index	IEC 60112		600
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.

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