



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR[®] CAST NYLON (MoS2 Black)

Technical Data Sheet - Rods, Sheets, Tubes

Properties	Test Method	Unit	Value
Density (23°C)	DIN EN ISO 1183-1	g/cm ³	1,15
Tensile Strength	DIN EN ISO 527-2	MPa	82
Modulus of elasticity (tensile)	DIN EN ISO 527-2	MPa	3200
Tensile strength at Yield	DIN EN ISO 527-2	MPa	80
Elongation at yield	DIN EN ISO 527-2	%	4
Elongation at break	DIN EN ISO 527-2	%	55
Flexural strength	DIN EN ISO 178	Mpa	102
Modulus of elasticity (flexural)	DIN EN ISO 178	MPa	3000
Compression strength (1% / 5%) 5mm/min, 10N	EN ISO 604	MPa	22/38/85
Compression modulus	EN ISO 604	MPa	2800
Notched impact strength (charpy)	DIN EN ISO 179-1eA	kJ/m ²	4
Ball Indentation hardness	ISO 2039-1	MPa	170
Glass transition temperature	DIN EN ISO 11357	°C	43
Melting Temperature	DIN EN ISO 11357	°C	217
Services Temperature – long term		°C	100
Service temperature – short term max		°C	170
Thermal Conductivity	ISO 22007-4:2008	W/(K*m)	0,33
Surface resistivity	DIN IEC 60093	Ω	10 ¹⁴
Volume resistivity	DIN IEC 60093	Ω*cm	10 ¹⁴
Water absorption (24h / 96h) 23°C	DIN ISO 62	%	0.2 / 0.5
Flammability (UL 94)	DIN IEC 60695-11-10		HB

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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