



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR[®] ABS

Technical Data Sheet - Rods, Sheets

Properties	Test Method	Unit	Value
Specific Gravity	ASTM D792	g/cm ³	1.05
Tensile yield strength	ASTM D638	Mpa	50
Breaking elongation	ASTM D638	%	40
Bending strength	ASTM 790	Mpa	60
Flexural modulus	ASTM 790	Mpa	1800
Shore hardness	ASTM D2240	D	80
Impact strength	ASTM D256	J/M	200
Heat distortion temperature	ASTM D648	°C	80
Operating temperature	-	°C	75
Maximum Operating temperature	-	°C	100
Thermal conductivity	DIN 52612-1	W/(K-M)	0.17
Coefficient of linear thermal expansion	ASTM D696	10 ⁻⁵ -1/K	9
Dielectric strength	ASTM D150	KV-mm	22
Volume resistivity	ASTM D257	Ω.cm	10 ¹⁵
Surface resistivity	ASTM D257	Ω	10 ¹⁴
Dielectric constant	ASTM D149	-	3.3
Water absorption	23°C 60%RH	%	0.4
Flammability	UL 94		HB
Coefficient of friction	DIN 53375		0.5

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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