



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR® POLYACETAL (POM-C)

Technical Data Sheet - Rods

Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm ³	1.41
Water Absorption (23°C, 24 hrs)	ISO 62	%	0.6
Flammability	UL94		HB
Tensile strength	ISO 527-1,2	MPa	62
Strain at Break	ISO 527-1,2	%	35*1
Flexural Strength	ISO 178	MPa	87
Flexural Modulus	ISO 178	MPa	2500
Charpy Impact Strength (Notched)	ISO 179/1eA	kJ/m ²	6
Rockwell Hardness	ISO 2039-2	M (Scale)	80
Coefficient of linear thermal expansion (23-55°C Flow Direction / Transverse Direction)		x 10 ⁻⁵ /°C	12
Temperature of deflection under load (1.8MPa)	ISO 75-1,2	°C	95
Dielectric breakdown strength (3mmt)	IEC 60243-1	kV/mm	19
Volume resistivity	IEC 60093	Ω·cm	1 x 10 ¹⁴
Surface resistivity	IEC 60093	Ω	1 x 10 ¹⁶
Specific wear amount (vs C-Steel, material side, pressure 0.98MPa, 30cm/s)	JIS K7218	x 10 ⁻³ mm ³ /(N.km)	0.20
Specific wear amount (vs C-Steel, steel side, pressure 0.98MPa, 30cm/s)	JIS K7218	x 10 ⁻³ mm ³ /(N.km)	0.01>
Coefficient of Dynamic Friction (vs C-Steel, Pressure 0.98MPa, 30cm/s)	JIS K7218		0.23

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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