



POLESTAR POLYMERS

An ISO 9001 : 2015 Certified Company

POLESTAR® POLYACETAL (POM-H)

Technical Data Sheet - Rods

Properties	Test Method	Unit	Value
Density	ISO 1183	g/cm ³	1.42
Tensile Modulus	ISO 527-1/-2	MPa	3100
Yield stress	ISO 527-1/-2	MPa	71
Yield strain	ISO 527-1/-2	%	17
Nominal strain at break	ISO 527-1/-2	%	30
Flexural modulus	ISO 178	MPa	2950
Charpy notched impact strength, 23°C / -30°C	ISO 179/1eA	kJ/m ²	9 / 8
Izod impact strength, 23°C / -30°C	ISO 180/1U	kJ/m ²	280 / 250
Ball indentation hardness, H 358/30	ISO 2039-1	Mpa	192
Hardness Rockwell, M-Scale / R-scale	ISO 2039-2	-	92 / 120
Melting temperature 10°C/min	ISO 11357-1/-3	°C	178
Deflection temperature under load 0.45 Mpa / 1.8 Mpa	ISO 75-1/-2	°C	160 / 95
Vicat softening temperature 50°C/h, 50N	ISO 306	°C	155
Volume Resistivity	IEC 60093	Ω*m	2E12
Surface Resistivity	IEC 60093	Ω	4E14
Electrical Strength	IEC 60243-1	kV/mm	44
Flammability (Thickness 0.8mm / 1.5mm)	IEC 60695-11-10		HB / 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.