



**POLESTAR POLYMERS**

An ISO 9001 : 2015 Certified Company

# **POLESTAR<sup>®</sup> POLYACETAL (POM-C)**

## **Technical Data Sheet - Sheets**

<b>Properties</b>	<b>Method</b>	<b>Unit</b>	<b>Value</b>
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3mm / 6mm)	UL94		HB / HB
Yield stress	DIN EN ISO 527	MPa	67
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2800
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	6
Shore- Hardness	DIN EN ISO 868	Scale D	81
Melting temperature	ISO 11357-3	°C	165
Thermal conductivity	DIN 52612-1	W / (m * K)	0,31
Thermal capacity	DIN 52612	kJ / (kg * K)	1,50
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	110
Service temperature - long term	Average	°C	-50 ... 100
Service temperature - short term (max)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, Verf.A, HDT	°C	110
Dielectric constant	IEC 60250		3,8
Dielectric dissipation factor, 50 Hz	IEC 60250		0.002
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 <sup>13</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>13</sup>
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	40

**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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