

TECHNICAL DATA SHEET
POM-C (EN)
MATERIAL

POM-C

MODIFICATION

none

COLOUR

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Property	Unit	Test method	Reference value
Product characteristics			
High chemical resistance · High dimensional stability · Low moisture absorption.			
Typical fields of application: mechanical engineering · electrical and electronic industries · medical technology.			
General properties			
Density	g/cm ³	DIN EN ISO 1183-1	1.41
Water absorption	%	DIN EN ISO 62	0.2
Flammability (thickness 3 mm/6 mm)		UL 94	HB/HB
Mechanical properties			
Yield stress	MPa	DIN EN ISO 527	67
Elongation at break	%	DIN EN ISO 527	30
Tensile modulus of elasticity	MPa	DIN EN ISO 527	2800
Notched impact strength (Charpy)	kJ/m ²	DIN EN ISO 179	6
Ball indentation hardness	MPa	DIN EN ISO 2039-1	150
Shore hardness	scale D	DIN EN ISO 868	81
Thermal properties			
Melting temperature	°C	ISO 11357-3	165
Thermal conductivity	W/(m·K)	DIN 52612-1	0.31
Thermal capacity	kJ/(kg·K)	DIN 52612	1.5
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	DIN 53752	110
Service temperature, long term	°C	Average	-50... +100
Service temperature, short term (max.)	°C	Average	140
Heat deflection temperature, method A	°C	DIN EN ISO 75	110
Electrical properties			
Dielectric constant		IEC 60250	3.8
Dielectric dissipation factor (50 Hz)		IEC 60250	0.002
Volume resistivity	Ω·cm	IEC 60093	10¹³
Surface resistivity	Ω	IEC 60093	10¹³
Comparative tracking index		IEC 60112	600
Dielectric strength	kV/mm	IEC 60243	40

NOTES ON USE

The short-term maximum service temperature applies only to applications with low mechanical stress for a few hours. The long-term service temperature is based on thermal ageing. Electrical values refer to natural, dry material and may change with colouring or moisture. All values are typical reference values and do not constitute guaranteed properties.