



POM C 90/40x1000 mm natur

Artikelnr P1005837
Material POM

Tekniska egenskaper

Density & Weight

Egenskap	Värde	Enhet	Provningsstandard
Density	1.24	g/cm³	ASTM D792

Tensile Properties

Egenskap	Värde	Enhet	Provningsstandard
Tensile Strength	51	MPa	DIN EN ISO 527-2
Modulus of elasticity (tensile)	1200	MPa	ASTM D790
Breakdown Voltage	76.5	MPa	ISO 527
Break Elongation	300	%	ASTM D638

Temperature Limits

Egenskap	Värde	Enhet	Provningsstandard
Melting point	222	°C	ISO 3146
Maximal operating temperature (short-term)	129	°C	UL746B
Maximum Operating Temperature	90	°C	
Minimum temperature	-46.25	°C	
Heat deflection temperature (HDT/A)	105	°C	ASTM D648
Heat deflection temperature (HDT/B)	155	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306

Insulation Properties

Egenskap	Värde	Enhet	Provningsstandard
Dielectric Strength	85	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹²	Ω	IEC 60093
Dielectric Constant (1 MHz)	3.7	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250

Fire Classification

Egenskap	Värde	Enhet	Provningsstandard
Flammability Classification (UL 94)	60695		UL 94

Flexural Properties

Egenskap	Värde	Enhet	Provningsstandard
Flexural Strength	58	MPa	ASTM D638

Thermal Conductivity

Egenskap	Värde	Enhet	Provningsstandard
Thermal Conductivity	0.3	W/(m·K)	DIN 52612

Static spread

Egenskap	Värde	Enhet	Provningsstandard
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

Moisture Absorption

Egenskap	Värde	Enhet	Provningsstandard
Water absorption to saturation	2.2	%	ASTM D955
Water Absorption to Saturation	0.5	%	ASTM D570

Impact Resistance

Egenskap	Värde	Enhet	Provningsstandard
Notched impact strength (Charpy)	6	kJ/m²	DIN EN ISO 179-1
Impact Resistance (Charpy)	19	kJ/m²	ISO 179/1eU

Thermal Expansion

Egenskap	Värde	Enhet	Provningsstandard
Thermal Expansion Coefficient	0.4	10 ⁻⁴ /K	ISO 11359

Hardness

Egenskap	Värde	Enhet	Provningsstandard
Hardness Shore D	83	° Shore D	ISO 868
Ball pressure hardness	230	MPa	ISO 2039-1

Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS