



POM C 100/60x1000 mm natural

Artikelnummer:	P1005843
Kategori:	POM

Tekniska egenskaper

Density & Weight

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Density	1.24	g/cm ³	ASTM D792

Moisture Absorption

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Water absorption to saturation	2.2	%	ASTM D955
Water Absorption to Saturation	0.5	%	ASTM D570

Tensile Properties

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
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

Flexural Properties

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Flexural Strength	58	MPa	ASTM D638

Impact Resistance

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Notched impact strength (Charpy)	6	kJ/m ²	DIN EN ISO 179-1
Impact Resistance (Charpy)	19	kJ/m ²	ISO 179/1eU

Hardness			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Hardness Shore D	83	° Shore D	ISO 868
Ball pressure hardness	230	MPa	ISO 2039-1

Temperature Limits			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Melting point	222	°C	ISO 3146
Maximal operating temperature (short-term)	129.1667	°C	UL746B
Maximum Operating Temperature	90.2778	°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

Thermal Conductivity			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Thermal Conductivity	0.3	W/(m·K)	DIN 52612

Thermal Expansion			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Thermal Expansion Coefficient	0.4	10 ⁻⁴ /K	ISO 11359

Insulation Properties			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Dielectric Strength	85	kV/mm	IEC 60243-1
Volume Resistivity	1012	Ω	IEC 60093
Dielectric Constant (1 MHz)	3.6889	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0053	-	IEC 60250
Dielectric loss factor (100 Hz)	0.002	-	IEC 60250

Static spread			
EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Surface Resistivity	1013	Ω	IEC 60093

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Comparative Tracking Index (CTI)	600	V	IEC 60112

Fire Classification

EGENSKAP	VÄRDE	ENHET	TESTSTANDARD
Flammability Classification (UL 94)	60695		UL 94