



## POM C FG 250/150x1000 mm natur

Artikelnr P1007456

Material POM

### Tekniska egenskaper

#### Density & Weight

Egenskap	Värde	Enhet	Provningsstandard
Density	<b>1.24</b>	g/cm <sup>3</sup>	ASTM D792

#### Tensile Properties

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

#### Temperature Limits

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

#### Insulation Properties

Egenskap	Värde	Enhet	Provningsstandard
Dielectric Strength	85	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>12</sup>	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 <sup>13</sup>	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/m <sup>2</sup>	DIN EN ISO 179-1
Impact Resistance (Charpy)	19	kJ/m <sup>2</sup>	ISO 179/1eU

### Thermal Expansion

Egenskap	Värde	Enhet	Provningsstandard
Thermal Expansion Coefficient	0.4	10 <sup>-4</sup> /K	ISO 11359

## Hardness

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

## Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS