

CENTROPLAST CENTRO HPM Polyetherimide

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

This material has high strength and rigidity at high temperatures, with good electrical properties. Applications include electrical insulators, and load-bearing components. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRO-HPM-Polyetherimide.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.75 %	0.75 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	1.35 %	1.35 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114 @Thickness 10.0 mm	114 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	170 MPa	24700 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	105 MPa	15200 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	10 %	10 %	ISO 527-2
Tensile Modulus	3.40 GPa	493 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C @Temperature 20.0 °C	25.0 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	170 °C	338 °F	Long Term
	300 °C	572 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-2
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.0	3.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	IEC 60112

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