

CENTROPLAST CENTROPHEN GF Polyphenylene ether 30% glass fiber

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 30% Glass Filled

Material Notes:

This material is a lightweight plastic with low moisture absorption, and is impact resistant at low temperatures. Applications include electronic housings, valve pistons, and support rollers. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROPHEN-GF-Polyphenylene-ether-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	value at 30 sec.; ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	v = 5 mm/min; ISO 527-2
Elongation at Break	1.5 %	1.5 %	ISO 527-2
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527-2
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 - 1.00 J/cm ²	3.81 - 4.76 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	
Melting Point	290 °C	554 °F	10K/min; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75-2
Vicat Softening Point	145 °C	293 °F	VST/B/50; ISO 306

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	IEC 60112

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