CENTROPLAST CENTROMID 12 GF 30 Polyamide 12 30% glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

CENTROMID 12 GF 30 is a dimensionally stable and high strength material with good electrical insulating properties. Its applications include levers and valve parts.Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:
http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-12-GF-30-Polyamide-12-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.60 %	0.60 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	1.1 %	1.1 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	value at 30 sec.; ISO 2039-1
Tensile Strength at Break	105 MPa	15200 psi	v = 5 mm/min; ISO 527-2
Elongation at Break	8.0 %	8.0 %	ISO 527-2
Tensile Modulus	6.00 GPa	870 ksi	ISO 527-2
Charpy Impact Unnotched	8.00 J/cm²	38.1 ft-lb/in²	ISO 179/1eU
Charpy Impact, Notched	2.00 J/cm²	9.52 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C @Temperature 20.0 °C	11.1 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft²-°F	
Melting Point	178 °C	352 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	150 °C	302 °F	Short term
	160 °C	320 °F	Long Term
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-2
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.040 @Frequency 1e+6 Hz	0.040 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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