

CENTROPLAST CENTROMID 6.6 GF 30 Polyamide 6.6 30% glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

This material has very high strength and rigidity, with lower moisture absorption. It can be used for housing parts, threaded bolts, and distance pieces. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-66-GF-30-Polyamide-66-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.7 %	1.7 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	76 @Thickness 10.0 mm	76 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	165 MPa	23900 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	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	5.90 GPa	856 ksi	ISO 527-2
Charpy Impact Unnotched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Melting Point	255 °C	491 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	120 °C	248 °F	Long Term
	240 °C	464 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@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

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