

CENTROPLAST CENTROMID 6 GF 30 Polyamide 6 30% glass fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

The 30% glass fibre matrix adds very high strength and rigidity to this material. It has increased dimensional accuracy when hot. Can be used for rollers, belt pulleys and racks. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROMID-6-GF-30-Polyamide-6-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.1 %	2.1 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	6.6 %	6.6 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	120 MPa	17400 psi	v = 50 mm/min; ISO 527-2
Tensile Modulus	8.70 GPa	1260 ksi	ISO 527-2
Charpy Impact Unnotched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	26.0 µm/m-°C	14.4 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	
Melting Point	220 °C	428 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	Long Term
	180 °C	356 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-2
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@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+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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