

CENTROPLAST CENTROLEN PP GF 30 Polypropylene 30% glass fiber

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

This material is a low density, easily machined plastic that has high impact resistance and dimensional stability. Applications include air filter housings, fan blades, and fittings with high loads. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLEN-PP-GF-30-Polypropylene-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption at Saturation	0.10 %	0.10 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	85.0 MPa	12300 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	3.0 %	3.0 %	ISO 527-2
Tensile Modulus	6.50 GPa	943 ksi	ISO 527-2
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 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	165 °C	329 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	Long Term
	140 °C	284 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75-2
Vicat Softening Point	130 °C	266 °F	VST/B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	

Thermal Properties	@Thickness 6.00 mm Metric	@Thickness 0.236 in English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093

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