

Plastics Group Polifil® GFRMPPCC-20 20% Glass Reinforced Polypropylene, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Polifil® GFRMPPCC series compounds are high impact polypropylenes reinforced with chemically coupled glass fibers. This combination provides higher impact strength while retaining high stiffness. Applications: Appliances Electrical components Automotive Utility products

Standard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFRMPPCC-20-20-Glass-Reinforced-Polypropylene-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Filler Content	20 %	20 %	ASTM D2584
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 1.59 mm	0.0040 in/in @Thickness 0.0625 in	ASTM D955
Melt Flow	5.0 - 10 g/10 min	5.0 - 10 g/10 min	230/2.16; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.8 MPa	8100 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	64.1 MPa	9300 psi	ASTM D638
Flexural Modulus	2.90 GPa	420 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	1.13 J	0.833 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	290 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	260 °F	ASTM D648

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