

Plastics Group Polifil® GFPP-40 40% Glass-Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Polifil® GFPP series compounds are homopolymer polypropylene resins reinforced with glass fibers. They provide high impact with increased strength, stiffness, surface hardness, and higher continuous temperature. Other benefits include reduced distortion under long-term stress. 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-GFPP-40-40-Glass-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 1.59 mm	0.0020 in/in @Thickness 0.0625 in	ASTM D955
Melt Flow	8.0 - 12 g/10 min	8.0 - 12 g/10 min	230/2.16; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.8 MPa	7800 psi	ASTM D638
Flexural Strength	78.6 MPa	11400 psi	ASTM D638
Flexural Modulus	5.52 GPa	800 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	0.305 J	0.225 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	294 °F	ASTM D648

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