

## Plastics Group Polifil® GFPPCC-40 40% Glass Reinforced Polypropylene

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

### Material Notes:

Polifil® GFPPCC series compounds are homopolymer polypropylenes reinforced with chemically coupled glass fibers. These compounds offer superior strength and stiffness, improved elevated temperature performance, better creep resistance, higher impact strength and higher resistance to high temperature water than conventional glass fiber reinforced polypropylenes. Applications: Chemical resistance Appliances Electrical components Automotive Irrigation 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-GFPPCC-40-40-Glass-Reinforced-Polypropylene.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFPPCC-40-40-Glass-Reinforced-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 1.59 mm	0.0030 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	110 MPa	16000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D638
Flexural Modulus	6.76 GPa	980 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	0.451 J	0.333 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 °C	315 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM D648

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