

## Plastics Group Polifil® GFPC-40 40% Glass-Reinforced Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 40% Glass Filled

**Material Notes:**

Polifil® GFPC series compounds offer a combination of improved dimensional stability and decreased flammability. The excellent balance of physical properties make the Polifil® glass-filled polycarbonate line an excellent choice for electrical, appliance and hardware applications. 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-GFPC-40-40-Glass-Reinforced-Polycarbonate.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFPC-40-40-Glass-Reinforced-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm @Thickness 1.59 mm	0.0010 - 0.0020 in/in @Thickness 0.0625 in	ASTM D955
Melt Flow	12 - 20 g/10 min	12 - 20 g/10 min	300/1.2; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Tensile Strength at Break	157 MPa	22700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D790
Flexural Strength	185 MPa	26800 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648
Flammability, UL94	HB	HB	

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