

Plastics Group Polifil® GFPC-20 20% Glass-Reinforced Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% 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-20-20-Glass-Reinforced-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Filler Content	20 %	20 %	ASTM D2584
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm @Thickness 1.59 mm	0.0020 - 0.0030 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	93	93	ASTM D785
Tensile Strength at Break	109 MPa	15800 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Tensile Modulus	5.864 GPa	850.5 ksi	ASTM D790
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	5.38 GPa	780 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 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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