

## Plastics Group Polifil® GFPC-10 10% Glass-Reinforced Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% 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-10-10-Glass-Reinforced-Polycarbonate.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFPC-10-10-Glass-Reinforced-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ASTM D792
Filler Content	10 %	10 %	ASTM D2584
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm @Thickness 1.59 mm	0.0020 - 0.0040 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 R	121	121	ASTM D785
Tensile Strength at Break	66.2 MPa	9600 psi	ASTM D638
Elongation at Break	12 %	12 %	ASTM D638
Tensile Modulus	2.86 GPa	415 ksi	ASTM D790
Flexural Strength	101 MPa	14700 psi	ASTM D790
Flexural Modulus	3.93 GPa	570 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)	135 °C	275 °F	ASTM D648
Flammability, UL94	HB	HB	

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