

Polykemi AB POLYfill PPC GF2007 PD1 Polypropylene Copolymer, Glass Fiber Reinforced, Chemically Coupled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 10% Glass Fiber Filler

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPC-GF2007-PD1-Polypropylene-Copolymer-Glass-Fiber-Reinforced-Chemically-Coupled.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ISO 1183
Filler Content	7 %	7 %	±2%; Polykemi
Melt Index of Compound	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 30.0 MPa	<= 4350 psi	ISO/R527
Elongation at Break	13 %	13 %	ISO/R527
Flexural Strength	<= 50.0 MPa	<= 7250 psi	ISO 178
Flexural Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	2.10 J/cm ² @Temperature -20.0 °C	9.99 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	2.30 J/cm ² @Temperature 23.0 °C	10.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	120°C/h; ISO 75/1

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	74.0 °C Metric	165 °F English	120°C/h; ISO 75/1 Comments
Vicat Softening Point	154 °C @Load 1.00 kg	309 °F @Load 2.21 lb	50°C/h; ISO 306
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Glow Wire Test	650 °C @Thickness 3.20 mm	1200 °F @Thickness 0.126 in	IEC 695-2-1

Processing Properties	Metric	English	Comments
Melt Temperature	205 - 260 °C	401 - 500 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	in circulation dryer
	2 - 4 hour	2 - 4 hour	in desiccant air dryer
Injection Pressure	40.0 - 110 MPa	5800 - 16000 psi	
Back Pressure	1.00 - 2.00 MPa	145 - 290 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

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