

Polykemi AB POLYfill PPH GF3045 HC Polypropylene Homopolymer, Glass Fibre-Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% 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-PPH-GF3045-HC-Polypropylene-Homopolymer-Glass-Fibre-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Filler Content	45 %	45 %	±2%; Polykemi
Melt Index of Compound	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 114 MPa	<= 16500 psi	ISO/R527
Elongation at Break	4.0 %	4.0 %	ISO/R527
Elongation at Yield	4.0 %	4.0 %	ISO/R527
Flexural Strength	<= 200 MPa	<= 29000 psi	ISO 178
Flexural Modulus	12.5 GPa @Temperature 23.0 °C	1810 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.800 J/cm ² @Temperature -20.0 °C	3.81 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	120°C/h; ISO 75/1
Vicat Softening Point	166 °C @Load 1.00 kg	331 °F @Load 2.21 lb	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
Glow Wire Test	@Thickness 2.00 mm	@Thickness 0.0787 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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