

Polykemi AB POLYfill PPH GF12030 PD2 Polypropylene Homopolymer, Glass Fibre-Reinforced, Chemically Coupled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-GF12030-PD2-Polypropylene-Homopolymer-Glass-Fibre-Reinforced-Chemically-Coupled.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.0025 - 0.0035 cm/cm	0.0025 - 0.0035 in/in	With Flow; ISO 2577
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	Across Flow; ISO 2577
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 90.0 MPa	<= 13100 psi	ISO/R527
Elongation at Break	3.0 %	3.0 %	ISO/R527
Flexural Strength	<= 130 MPa	<= 18900 psi	ISO 178
Flexural Modulus	5.80 GPa @Temperature 23.0 °C	841 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	120°C/h; ISO 75/1
	130 °C	266 °F	

Vicat Softening Point Thermal Properties		Metric @Load 5.001 kg	English @Load 11.03 lb	50°C/h- ISO 306 Comments
Flammability, UL94	HB	HB		
	@Thickness 1.60 mm	@Thickness 0.0630 in		
Glow Wire Test	750 °C	1380 °F		IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in		

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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