

Polykemi AB POLYfill PPH GF5035 PD2 VT Polypropylene Homopolymer, Glass Fibre-Reinforced, Chemically Coupled/Heat Resistant

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-GF5035-PD2-VT-Polypropylene-Homopolymer-Glass-Fibre-Reinforced-Chemically-CoupledHeat-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Filler Content	35 %	35 %	±2%; Polykemi
Linear Mold Shrinkage	0.0025 - 0.0035 cm/cm	0.0025 - 0.0035 in/in	Across Flow; ISO 2577
	0.0025 - 0.0035 cm/cm	0.0025 - 0.0035 in/in	With Flow; ISO 2577
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

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	6.00 GPa	870 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °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 @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Glow Wire Test	750 °C @Thickness 2.00 mm	1380 °F @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 desiccant air dryer
	2 - 4 hour	2 - 4 hour	in circulation 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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