

Polykemi AB POLYfill PPH BF405510 VT1 Polypropylene Homopolymer, Reinforced, Heat Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-BF405510-VT1-Polypropylene-Homopolymer-Reinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	ISO 1183
Filler Content	65 %	65 %	±2%; Polykemi
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	With Flow; ISO 2577
	0.015 cm/cm	0.015 in/in	Across Flow; ISO 2577
Melt Index of Compound	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 28.0 MPa	<= 4060 psi	ISO/R527
Elongation at Break	6.0 %	6.0 %	ISO/R527
Elongation at Yield	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 55.0 MPa	<= 7980 psi	ISO 178
Flexural Modulus	5.00 GPa @Temperature 23.0 °C	725 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 180/4A
Charpy Impact Unnotched	2.20 J/cm ² @Temperature -20.0 °C	10.5 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	2.20 J/cm ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 - 65.0 µm/m-°C	30.6 - 36.1 µin/in-°F	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	120°C/h; ISO 75/1
Vicat Softening Point	98.0 °C	208 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	155 °C	311 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
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 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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