

Polykemi AB POLYfill PPH GK8020D Polypropylene Homopolymer, Glass Reinforced, Detergent Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-GK8020D-Polypropylene-Homopolymer-Glass-Reinforced-Detergent-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Filler Content	20 %	20 %	±2%; Polykemi
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 27.0 MPa	<= 3920 psi	ISO/R527
Elongation at Break	24 %	24 %	ISO/R527
Elongation at Yield	10 %	10 %	ISO/R527
Flexural Strength	<= 45.0 MPa	<= 6530 psi	ISO 178
Flexural Modulus	1.90 GPa @Temperature 23.0 °C	276 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	1.10 J/cm ² @Temperature -20.0 °C	5.23 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	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	114 °C	237 °F	120°C/h; ISO 75/1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	120°C/h; ISO 75/1
Vicat Softening Point	153 °C	307 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
	196 °C	385 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	

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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