

Polykemi AB POLYfill PP CIP6020F Polypropylene, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Talc Filler

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PP-CIP6020F-Polypropylene-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Filler Content	20 %	20 %	±2%; Polykemi
Linear Mold Shrinkage	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	With Flow; ISO 2577
	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	Across Flow; ISO 2577
Melt Index of Compound	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 21.0 MPa	<= 3050 psi	ISO/R527
Flexural Strength	<= 35.0 MPa	<= 5080 psi	ISO 178
Flexural Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.300 J/cm ² @Temperature -40.0 °C	1.43 ft-lb/in ² @Temperature -40.0 °F	ISO 179
	0.350 J/cm ² @Temperature -20.0 °C	1.67 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	2.50 J/cm ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	67.0 °C	153 °F	120°C/h; ISO 75/1
	66.0 °C	151 °F	

Vicat Softening Point Thermal Properties	Metric @Load 5.001 kg	English @Load 11.03 lb	50°C/h; ISO 306 Comments
	145 °C	293 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 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 - 70.0 MPa	5800 - 10200 psi	
Back Pressure	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	< 20	% of injection pressure
Injection Speed ()	Medium	

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