

Polykemi AB POLYfill PP CPX10030 UV Polypropylene, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-CPX10030-UV-Polypropylene-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Melt Index of Compound	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 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 Yield	7.5 %	7.5 %	ISO/R527
Flexural Modulus	2.10 GPa @Temperature 23.0 °C	305 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	120°C/h; ISO 75/1
Vicat Softening Point	143 °C @Load 1.00 kg	289 °F @Load 2.21 lb	50°C/h; ISO 306
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	230 - 250 °C	446 - 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °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	1.00 - 1.50 MPa	145 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	> 40	% of injection pressure
Injection Speed ()	High	

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