

Polykemi AB POLYfill PP CPQ10015 FF 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-CPQ10015-FF-Polypropylene-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ISO 1183
Filler Content	15 %	15 %	±2%; Polykemi
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	With Flow; ISO 2577
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	Across Flow; ISO 2577
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	<= 21.0 MPa	<= 3050 psi	ISO/R527
Elongation at Break	55 %	55 %	ISO/R527
Elongation at Yield	7.0 %	7.0 %	ISO/R527
Flexural Strength	<= 39.0 MPa	<= 5660 psi	ISO 178
Flexural Modulus	1.90 GPa @Temperature 23.0 °C	276 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °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
	2.80 J/cm ² @Temperature 23.0 °C	13.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	27.8 - 38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	124 $^{\circ}\text{C}$	255 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	67.0 $^{\circ}\text{C}$	153 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Vicat Softening Point	60.0 $^{\circ}\text{C}$	140 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	140 $^{\circ}\text{C}$	284 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 $^{\circ}\text{C}$	446 - 482 $^{\circ}\text{F}$	
Mold Temperature	40.0 - 60.0 $^{\circ}\text{C}$	104 - 140 $^{\circ}\text{F}$	
Drying Temperature	70.0 - 80.0 $^{\circ}\text{C}$	158 - 176 $^{\circ}\text{F}$	
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	
Scratch Resistance, 10N (dL)	0.12	10N Fine Structure; ISO 1518/D65

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