

Polykemi AB POLYfill PPH T16020 Polypropylene Homopolymer, 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-PPH-T16020-Polypropylene-Homopolymer-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	0.010 - 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	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 34.0 MPa	<= 4930 psi	ISO/R527
Elongation at Break	25 %	25 %	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 51.0 MPa	<= 7400 psi	ISO 178
Flexural Modulus	2.80 GPa @Temperature 23.0 °C	406 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	1.80 J/cm ² @Temperature -20.0 °C	8.57 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	3.50 J/cm ² @Temperature 23.0 °C	16.7 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
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 - 44.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	118 $^{\circ}\text{C}$	244 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	68.0 $^{\circ}\text{C}$	154 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Vicat Softening Point	86.0 $^{\circ}\text{C}$	187 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	148 $^{\circ}\text{C}$	298 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; 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 $^{\circ}\text{C}$	1380 $^{\circ}\text{F}$	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	205 - 260 $^{\circ}\text{C}$	401 - 500 $^{\circ}\text{F}$	
Mold Temperature	40.0 - 80.0 $^{\circ}\text{C}$	104 - 176 $^{\circ}\text{F}$	
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 - 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	
Scratch Resistance, 10N (dL)	3.3	10N Fine Structure; ISO 1518/D65

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