

Polykemi AB POLYfill PPC T4020 E20 Polypropylene Copolymer, Mineral Reinforced, Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , 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-PPC-T4020-E20-Polypropylene-Copolymer-Mineral-Reinforced-Modified.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	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	With Flow; ISO 2577
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	Across Flow; ISO 2577
Melt Index of Compound	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 21.0 MPa	<= 3050 psi	ISO/R527
Elongation at Yield	7.5 %	7.5 %	ISO/R527
Flexural Strength	<= 35.0 MPa	<= 5080 psi	ISO 178
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C/h; ISO 75/1
Vicat Softening Point	60.0 °C	140 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	140 °C	284 °F	50°C/h; ISO 306

Thermal Properties	@Load 1.00 kg Metric	@Load 2.21 lb English	Comments
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	210 - 240 °C	410 - 464 °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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