

Polykemi AB POLYfill PP CIP16020FCS Polypropylene, Fast Cycle

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-CIP16020FCS-Polypropylene-Fast-Cycle.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
Hardness, Shore D	68 @Time 15.0 sec	68 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	<= 30.0 MPa	<= 4350 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 43.0 MPa	<= 6240 psi	ISO 178
Flexural Modulus	2.50 GPa @Temperature 23.0 °C	363 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	0.400 J/cm ² @Temperature 23.0 °C	1.90 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
Vicat Softening Point	156 °C	313 °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	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	
Scratch Resistance, 10N (dL)	0.12	10N Fine Structure; ISO 1518/D65

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