

Polykemi AB POLYfill PP CIP15015 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-CIP15015-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	0.0090 - 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	15 g/10 min	15 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	<= 25.0 MPa	<= 3630 psi	ISO/R527
Elongation at Break	55 %	55 %	ISO/R527
Elongation at Yield	7.0 %	7.0 %	ISO/R527
Flexural Strength	<= 38.0 MPa	<= 5510 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 - 44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	123 °C	253 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	120°C/h; ISO 75/1
Vicat Softening Point	63.0 °C	145 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	139 °C	282 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

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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