

Polykemi AB POLYfill PP CQX10030 RT Polypropylene, Mineral Reinforced, Scratch Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-CQX10030-RT-Polypropylene-Mineral-Reinforced-Scratch-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	With Flow; ISO 2577
	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	Across Flow; ISO 2577
Melt Index of Compound	10 g/10 min	10 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	<= 20.0 MPa	<= 2900 psi	ISO/R527
Elongation at Break	16 %	16 %	ISO/R527
Elongation at Yield	7.0 %	7.0 %	ISO/R527
Flexural Strength	<= 36.0 MPa	<= 5220 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 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)	111 °C	232 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	120°C/h; ISO 75/1
Vicat Softening Point	70.0 °C	158 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	146 °C	295 °F	50°C/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 °C	1380 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 °C	446 - 482 °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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