

Polykemi AB POLYfill PP CQX15015 R3 UV Polypropylene, Mineral Reinforced, Scratch Resistant

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-CQX15015-R3-UV-Polypropylene-Mineral-Reinforced-Scratch-Resistant.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	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	With Flow; ISO 2577
	0.014 - 0.016 cm/cm	0.014 - 0.016 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	<= 20.0 MPa	<= 2900 psi	ISO/R527
Elongation at Break	31 %	31 %	ISO/R527
Elongation at Yield	9.0 %	9.0 %	ISO/R527
Flexural Strength	<= 34.0 MPa	<= 4930 psi	ISO 178
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	5.40 J/cm ²	25.7 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 - 110 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 - 61.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	104 $^{\circ}\text{C}$	219 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	50.0 $^{\circ}\text{C}$	122 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Vicat Softening Point	68.0 $^{\circ}\text{C}$	154 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
Glow Wire Test	650 $^{\circ}\text{C}$	1200 $^{\circ}\text{F}$	IEC 695-2-1
	@Thickness 2.20 mm	@Thickness 0.0866 in	

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 240 $^{\circ}\text{C}$	428 - 464 $^{\circ}\text{F}$	
Mold Temperature	40.0 - 70.0 $^{\circ}\text{C}$	104 - 158 $^{\circ}\text{F}$	
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	50.0 - 70.0 MPa	7250 - 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	
Scratch Resistance, 10N (dL)	< 0.1	10N Fine Structure; ISO 1518/D65

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