

Polykemi AB POLYfill PPH T5040 FC VT Polypropylene Homopolymer, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-T5040-FC-VT-Polypropylene-Homopolymer-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Filler Content	40 %	40 %	±2%; Polykemi
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	Across Flow; ISO 2577
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	With Flow; ISO 2577
Melt Index of Compound	5.0 g/10 min	5.0 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	<= 30.0 MPa	<= 4350 psi	ISO/R527
Elongation at Yield	4.0 %	4.0 %	ISO/R527
Flexural Strength	<= 58.0 MPa	<= 8410 psi	ISO 178
Flexural Modulus	3.80 GPa	551 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/4A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/4A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties Deflection Temperature at 0.46 MPa (69 psi)	Metric	English	Comments ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	120°C/h; ISO 75/1
Vicat Softening Point	89.0 °C @Load 5.001 kg	192 °F @Load 11.03 lb	50°C/h; ISO 306
	150 °C @Load 1.00 kg	302 °F @Load 2.21 lb	50°C/h; ISO 306
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

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