

Polykemi AB POLYfill PP 150ENH Polypropylene, Flame Retardant, Halogen Free

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PP-150ENH-Polypropylene-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	Across Flow; ISO 2577
	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	With Flow; ISO 2577
Melt Index of Compound	15 g/10 min @Load 2.16 kg, Temperature 230 °C	15 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 24.0 MPa	<= 3480 psi	ISO/R527
Elongation at Yield	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 50.0 MPa	<= 7250 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °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
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	120°C/h; ISO 75/1
Vicat Softening Point	97.0 °C	207 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °F	
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	in desiccant air dryer
	2 - 4 hour	2 - 4 hour	in circulation dryer
Injection Pressure	40.0 - 110 MPa	5800 - 16000 psi	
Back Pressure	0.500 - 1.00 MPa	72.5 - 145 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	Normal	

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