

Polykemi AB POLYfill PPH 150DNH Polypropylene Homopolymer, 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-PPH-150DNH-Polypropylene-Homopolymer-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	With Flow; ISO 2577
	0.012 - 0.014 cm/cm	0.012 - 0.014 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
Hardness, Shore D	65	65	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 25.0 MPa	<= 3630 psi	ISO/R527
Elongation at Yield	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 45.0 MPa	<= 6530 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	@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	
	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 0.46 MPa (66 psi)	108 °C	226 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	120°C/h; ISO 75/1

Thermal Properties	Metric	English	Comments
Heat Softening Point	@Load 5.001 kg	@Load 11.03 lb	50 °C/h; ISO 306
	154 °C	309 °F	50°C/h; ISO 306
Flammability, UL94	@Load 1.00 kg	@Load 2.21 lb	
	V-0	V-0	
Glow Wire Test	@Thickness 1.60 mm	@Thickness 0.0630 in	IEC 695-2-1
	960 °C	1760 °F	

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 circulation dryer
	2 - 4 hour	2 - 4 hour	in desiccant air 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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