

Polykemi AB POLYfill PPC 05ENH Polypropylene Copolymer, Flame Retardant, Halogen Free

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , 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-PPC-05ENH-Polypropylene-Copolymer-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Melt Index of Compound	0.50 g/10 min @Load 2.16 kg, Temperature 230 °C	0.50 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 23.0 MPa	<= 3340 psi	ISO/R527
Elongation at Break	558 %	558 %	ISO/R527
Elongation at Yield	9.0 %	9.0 %	ISO/R527
Flexural Strength	<= 40.0 MPa	<= 5800 psi	ISO 178
Flexural Modulus	2.10 GPa @Temperature 23.0 °C	305 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.450 J/cm ² @Temperature -20.0 °C	2.14 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	109 °C	228 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	120°C/h; ISO 75/1
Vicat Softening Point	82.0 °C @Load 5.001 kg	180 °F @Load 11.03 lb	50°C/h; ISO 306
	151 °C	304 °F	50°C/h; ISO 306

Thermal Properties	@Load 1.00 kg Metric	@Load 2.21 lb English	Comments
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 1.60 mm	1560 °F @Thickness 0.0630 in	IEC 695-2-1

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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