

Polykemi AB POLYfill PPHC EP1001F Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPHC-EP1001F-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 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	10 %	10 %	ISO/R527
Flexural Strength	<= 28.0 MPa	<= 4060 psi	ISO 178
Flexural Modulus	0.950 GPa @Temperature 23.0 °C	138 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	1.40 J/cm ² @Temperature -20.0 °C	6.66 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	58.0 °C @Load 5.001 kg	136 °F @Load 11.03 lb	50°C/h; ISO 306
	136 °C @Load 1.00 kg	277 °F @Load 2.21 lb	50°C/h; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	205 - 260 °C	401 - 500 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	

Processing Properties	70.0 - 80.0 °C Metric	158 - 176 °F English	Comments
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	1.00 - 2.00 MPa	145 - 290 psi	

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

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