

Polykemi AB POLYfill PP CIP1001F 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-PP-CIP1001F-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Index of Compound	7.0 g/10 min	7.0 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	<= 29.0 MPa	<= 4210 psi	ISO/R527
Elongation at Yield	9.0 %	9.0 %	ISO/R527
Flexural Strength	<= 39.0 MPa	<= 5660 psi	ISO 178
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.70 J/cm ²	12.8 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 °C	167 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	148 °C	298 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	

Drying Temperature Processing Properties	70.0 - 80.0 °C Metric	158 - 176 °F English	Comments
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 - 70.0 MPa	5800 - 10200 psi	
Back Pressure	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	< 20	% of injection pressure
Injection Speed ()	Medium	

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