

Polykemi AB POLYabs F00 GF17 ABS, Glass Fiber-Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYabs-F00-GF17-ABS-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Filler Content	17 %	17 %	±2%; Polykemi
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Across Flow; ISO 2577
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	With Flow; ISO 2577
Melt Index of Compound	8.0 g/10 min @Load 5.00 kg, Temperature 230 °C	8.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 42.0 MPa	<= 6090 psi	ISO/R527
Elongation at Break	4.5 %	4.5 %	ISO/R527
Flexural Strength	<= 73.0 MPa	<= 10600 psi	ISO 178
Flexural Modulus	3.90 GPa @Temperature 23.0 °C	566 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	120°C/h; ISO 75/1
Vicat Softening Point	105 °C @Load 5.001 kg	221 °F @Load 11.03 lb	50°C/h; ISO 306
	110 °C @Load 1.00 kg	230 °F @Load 2.21 lb	50°C/h; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 °C	374 - 446 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	in desiccant air dryer
	2 - 4 hour	2 - 4 hour	in fresh-air dryer
	2 - 4 hour	2 - 4 hour	in circulation dryer
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	
Back Pressure	1.00 - 1.50 MPa	145 - 218 psi	

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

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