

Polykemi AB POLYabs N20 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-N20-GF17-ABS-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	With Flow; ISO 2577
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Across Flow; ISO 2577
Melt Index of Compound	5.0 g/10 min @Load 5.00 kg, Temperature 230 °C	5.0 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	2.5 %	2.5 %	ISO/R527
Flexural Strength	<= 73.0 MPa	<= 10600 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.500 J/cm ²	2.38 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)	105 °C	221 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	120°C/h; ISO 75/1
Vicat Softening Point	105 °C	221 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	

Thermal Properties	Metric	English	Comments
Flammability, UL 94	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	650 °C	1200 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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