

Polykemi AB POLYblend 45FS GF20 PC/ABS-Blend, Glass Fiber reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYblend-45FS-GF20-PCABS-Blend-Glass-Fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Filler Content	20 %	20 %	±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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 45.0 MPa	<= 6530 psi	ISO/R527
Elongation at Break	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 75.0 MPa	<= 10900 psi	ISO 178
Flexural Modulus	3.50 GPa @Temperature 23.0 °C	508 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 35.0 µm/m-°C	16.7 - 19.4 µin/in-°F	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	120°C/h; ISO 75/1
Vicat Softening Point	115 °C @Load 5.001 kg	239 °F @Load 11.03 lb	50°C/h; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	
Dry Time	2 - 8 hour	2 - 8 hour	in circulation dryer
	2 - 8 hour	2 - 8 hour	in fresh-air dryer
	2 - 8 hour	2 - 8 hour	in desiccant air dryer
Injection Pressure	90.0 - 150 MPa	13100 - 21800 psi	
Back Pressure	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-50	% of injection pressure
Injection Speed ()	High	

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