

Polykemi AB POLYshine PBT D231 GF15 PBT, Glass-Fiber Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled , Polybutylene Terephthalate (PBT), 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-POLYshine-PBT-D231-GF15-PBT-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Filler Content	15 %	15 %	±2%; Polykemi
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	With Flow; ISO 2577
	0.013 cm/cm	0.013 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 110 MPa	<= 16000 psi	ISO/R527
Elongation at Break	3.0 %	3.0 %	ISO/R527
Flexural Strength	<= 160 MPa	<= 23200 psi	ISO 178
Flexural Modulus	5.50 GPa @Temperature 23.0 °C	798 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.800 J/cm ² @Temperature -20.0 °C	3.81 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	120°C/h; ISO 75/1
Vicat Softening Point	205 °C @Load 5.001 kg	401 °F @Load 11.03 lb	50°C/h; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
Glow Wire Test			IEC 609-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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