

Polykemi AB POLYshine PBT D223 GF20 FR PBT, Glass-Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYshine-PBT-D223-GF20-FR-PBT-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Filler Content	20 %	20 %	±2%; Polykemi
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	With Flow; ISO 2577
	0.012 cm/cm	0.012 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 120 MPa	<= 17400 psi	ISO/R527
Elongation at Break	2.4 %	2.4 %	ISO/R527
Flexural Strength	<= 170 MPa	<= 24700 psi	ISO 178
Flexural Modulus	6.50 GPa @Temperature 23.0 °C	943 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
	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °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	V-0	V-0	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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