

PolyOne Bergadur™ PB40 G15 blue Polybutylene Terephthalate (PBT)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergadur-PB40-G15-blue-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc @Temperature 23.0 °C	0.0513 lb/in ³ @Temperature 73.4 °F	±0.02; ISO 1183
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 250 °C	30 g/10 min @Load 4.76 lb, Temperature 482 °F	±5; ISO 1133
Melt Index of Compound	25 g/10 min @Load 2.16 kg, Temperature 250 °C	25 g/10 min @Load 4.76 lb, Temperature 482 °F	±5; cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa @Thickness 4.00 mm, Temperature 23.0 °C	15200 psi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2
Elongation at Break	>= 3.0 % @Thickness 4.00 mm, Temperature 23.0 °C	>= 3.0 % @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2
Tensile Modulus	6.50 GPa @Thickness 4.00 mm, Temperature 23.0 °C	943 ksi @Thickness 0.157 in, Temperature 73.4 °F	ISO 527-2
Charpy Impact Unnotched	3.10 J/cm ² @Temperature 23.0 °C	14.8 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 179
Charpy Impact, Notched	0.370 J/cm ² @Temperature 23.0 °C	1.76 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 179

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Internal Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 - 120 °C	176 - 248 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Blue	
Features	Good Chemical Resistance	
	Good Impact Resistance	
Filler / Reinforcement	Glass Fiber Reinforcement, 15% Filler by Weight	
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Processing Method	Injection Molding	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

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