

PolyOne Bergadur™ PB40 G15 UF UV 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-UF-UV-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	±0.03 g/cm ³ ; DIN 53479
Melt Index of Compound	18 g/10 min @Load 1.60 kg, Temperature 250 °C	18 g/10 min @Load 3.53 lb, Temperature 482 °F	cm ³ /10min; ISO 1133
Ash	15 %	15 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa @Temperature 23.0 °C	9430 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	4.60 GPa @Temperature 23.0 °C	667 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	6.70 J/cm ² @Temperature 23.0 °C	31.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.950 J/cm ² @Temperature 23.0 °C	4.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	224 °C	435 °F	ISO 3146
Maximum Service Temperature, Air	135 °C	275 °F	Continuous (GTP 50% Tensile); IEC 60216
	170 °C	338 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	Unannealed; ISO 75-2/B
Flammability, UL94	V-0	V-0	Internal Method

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Glow Wire Test	960 °C	1760 °F	1.6 mm wire; Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Additive	UV Stabilizer	
Features	Flame Retardant	
	Halogen Free	
	Low (to None) Phosphorus Content	
Filler / Reinforcement	Glass Fiber Reinforcement, 15% Filler by Weight	
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Regional Availability	Africa & Middle East	
	Europe	
RoHS Compliance	RoHS Compliant	

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