

PolyOne Bergadur™ PB40 G30 UF UV Polybutylene Terephthalate (PBT)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergadur-PB40-G30-UF-UV-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	±0.03 g/cm ³ ; DIN 53479
Melt Index of Compound	14 g/10 min @Load 1.60 kg, Temperature 250 °C	14 g/10 min @Load 3.53 lb, Temperature 482 °F	cm ³ /10min; ISO 1133
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa @Temperature 23.0 °C	13100 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	2.5 % @Temperature 23.0 °C	2.5 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	8.20 GPa @Temperature 23.0 °C	1190 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	7.40 J/cm ² @Temperature 23.0 °C	35.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ² @Temperature 23.0 °C	5.23 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	140 °C	284 °F	Continuous (GTP 50% Tensile); IEC 60216
	170 °C	338 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	Unannealed; ISO 75-2/B
Flammability, UL94	V-0	V-0	Internal Method

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Glow Wire Test	960 °C	1760 °F	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, 30% 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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