

PolyOne Bergadur™ PB400 G10 H UF UV Polybutylene Terephthalate (PBT)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergadur-PB400-G10-H-UF-UV-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	±0.02; ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm	0.0040 - 0.0090 in/in	Bergmann method; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	≥ 60.0 MPa @Thickness 4.00 mm, Temperature 23.0 °C	≥ 8700 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	4.70 GPa @Thickness 4.00 mm, Temperature 23.0 °C	682 ksi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2
Charpy Impact Unnotched	3.50 J/cm² @Temperature 23.0 °C	16.7 ft-lb/in² @Temperature 73.4 °F	Injection Molded; ISO 179
Charpy Impact, Notched	0.420 J/cm² @Temperature 23.0 °C	2.00 ft-lb/in² @Temperature 73.4 °F	Injection Molded; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL 94
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL 94
Glow Wire Test	960 °C @Thickness 0.800 mm	1760 °F @Thickness 0.0315 in	Flammability Index; IEC 60695-2-12
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Comparative Tracking Index	600 V	600 V	UL 746

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Additive	UV Stabilizer	
Appearance	Natural Color	
Features	Flame Retardant	
	Halogen Free	
Filler / Reinforcement	Glass Fiber Reinforcement, 10% Filler by Weight	
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Regional Availability	Europe	

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