

PolyOne Trilliant™ HC HC3320-0020 RS Natural Polybutylene Terephthalate (PBT)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

The Trilliant® specialty compounds offer a complete system of specialty engineered materials, certified processes, services and technical support that enable healthcare OEM's to get to market ahead of the competition. When specified, Trilliant® compounds may incorporate agency rated materials that meet USP Class VI, FDA or ISO 10993 testing requirements. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-HC3320-0020-RS-Natural-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.5 MPa	14000 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	9.0 %	9.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	162 MPa	23500 psi	ASTM D790
Flexural Modulus	6.14 GPa	891 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.899 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	216 - 232 °C	421 - 450 °F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 218 °C @Thickness 3.18 mm	>= 424 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 65.6 °C	120 - 150 °F	
Drying Temperature	93.3 °C	200 °F	
Dry Time	3.00 hour	3.00 hour	

Descriptive Properties	Value	Comments
Agency Ratings	USP Class VI	
Appearance	Natural Color	
Features	Biocompatible	
	Good Chemical Resistance	
	Good Colorability	
	Specialty Grade	
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Hospital Goods	
	Medical/Healthcare Applications	

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