

PolyOne Trilliant™ HC HC3620-0040 RS Natural Polycarbonate + PBT (PC+PBT)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

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-HC3620-0040-RS-Natural-Polycarbonate-PBT-PCPBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.4 MPa	6290 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	100 %	100 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	59.3 MPa	8600 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	6.90 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	12.9 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	249 - 271 °C	480 - 520 °F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 80.0 °C @Thickness 3.18 mm	>= 176 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	37.8 - 60.0 °C	100 - 140 °F	
Drying Temperature	82.2 °C	180 °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	
	High Impact Resistance	
	Specialty Grade	
Forms	Pellets	
Generic Material	PC+PBT	
Generic Name	Polycarbonate + PBT (PC+PBT)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Hospital Goods	
	Housings	
	Medical Appliances	
	Medical/Healthcare Applications	

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