

PolyOne Trilliant™ HC X THC 1101 Natural Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Trilliant™ HC high performance blends offer outstanding strength, durability and chemical resistance through the combination of Eastman Tritan™ copolyester with other various polymeric resins. Trilliant™ HC blends made with Tritan™ copolyester are available in standard grades or can be customized to meet specific performance requirements. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-X-THC-1101-Natural-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0056 cm/cm @Thickness 3.18 mm	0.0056 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0045 cm/cm @Thickness 3.18 mm	0.0045 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 260 °C	18 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.4 MPa	3390 psi	Type I, 51 mm/min; ASTM D638
Tensile Strength, Yield	41.4 MPa	6000 psi	51 mm/min; ASTM D638
Elongation at Break	40 %	40 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	1.74 GPa	252 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	74.5 MPa	10800 psi	13 mm/min; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	13 mm/min; ASTM D790
Izod Impact, Notched	8.50 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	15.9 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 µm/m-°C @Temperature -30.0 - 30.0 °C	41.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	Good Color Stability	
	Good Flow	
	Good Toughness	
	High Impact Resistance	
	Hydrolytically Stable	
	Medium Heat Resistance	
Forms	Pellets	
Generic Material	Copolyester	
Generic Name	Copolyester	
Regional Availability	Africa & Middle East	
	Europe	
	North America	
	South America	
Uses	Electrical Housing	
	Hospital Goods	
	Housings	
	Medical Appliances	
	Medical/Healthcare Applications	
	Thin-walled Parts	

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