

Trilliant™ HC X THC 1100 Natural

Copolyester
PolyOne Corporation

Message:

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.

General Information			
Features	Good Chemical Resistance		
	Good Color Stability		
	Good Flow		
	Good Toughness		
	High Impact Resistance		
	Hydrolytically Stable		
	Medium Heat Resistance		
Uses	Electrical Housing		
	Hospital Goods		
	Housings		
	Medical Devices		
	Medical/Healthcare Applications		
	Thin-walled Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.58	%	
Across Flow : 3.18 mm	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1560	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield ²	40.0	MPa	
Break ³	36.5	MPa	
Tensile Elongation ⁴ (Break)	74	%	ASTM D638
Flexural Modulus ⁵	1560	MPa	ASTM D790
Flexural Strength ⁶	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	960	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	95.0	°C	
1.8 MPa, Unannealed, 3.18 mm	80.0	°C	
CLTE - Flow (-30 to 30°C)	7.1E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Type I, 51 mm/min		
2.	51 mm/min		
3.	Type I, 51 mm/min		
4.	Type I, 51 mm/min		
5.	13 mm/min		
6.	13 mm/min		

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