

PolyOne Trilliant™ HC THC-02 1200 IL Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Trilliant® HC 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 HC compounds may incorporate agency rated materials that meet USP Class VI, FDA or ISO 10993 testing requirements. Molded Test Bars: Dry as Molded

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-THC-02-1200-IL-Natural-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.021 cm/cm @Thickness 3.18 mm	0.021 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.036 cm/cm @Thickness 3.18 mm	0.036 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	77.0 MPa	11200 psi	ISO 527-2
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	ISO 180/3A

Thermal Properties	Metric	English	Comments
Melting Point	255 - 265 °C	491 - 509 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 270 °C	482 - 518 °F	
Middle Barrel Temperature	260 - 280 °C	500 - 536 °F	
Front Barrel Temperature	270 - 290 °C	518 - 554 °F	
Nozzle Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additive	Lubricant		
Appearance	Natural Color		
Features	Good Chemical Resistance		
	Good Colorability		
	Lubricated		
	Medium Impact Resistance		
Forms	Pellets		
Generic Material	Nylon 66		
Generic Name	Polyamide 66 (Nylon 66)		
Processing Method	Injection Molding		
Regional Availability	North America		
	South America		
Uses	Hospital Goods		
	Housings		
	Medical Appliances		
	Medical/Healthcare Applications		

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