

PolyOne Trilliant™ HC HC5220-0040 RS Natural Polypropylene, Unspecified (PP, Unspecified)

Category : Polymer , Thermoplastic , Polypropylene (PP)

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-HC5220-0040-RS-Natural-Polypropylene-Unspecified-PP-Unspecified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ASTM D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.9 MPa	8400 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	88.9 MPa	12900 psi	ASTM D790
Flexural Modulus	6.79 GPa	985 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.806 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	2.10 J/cm	3.93 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	204 - 216 °C	399 - 421 °F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 155 °C @Thickness 3.18 mm	>= 311 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Mold Temperature Processing Properties	26.7 - 37.8 °C Metric	80.1 - 100 °F English	Comments
---	--------------------------	--------------------------	----------

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, 40% Filler by Weight	
Forms	Pellets	
Generic Material	PP, Unspecified	
Generic Name	Polypropylene, Unspecified (PP, Unspecified)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Hospital Goods	
	Medical/Healthcare Applications	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China