

PolyOne Trilliant™ HC HC5210-0020 RS Natural Polypropylene Homopolymer (PP Homopolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-HC5210-0020-RS-Natural-Polypropylene-Homopolymer-PP-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	64.1 MPa	9300 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	10 %	10 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	90.3 MPa	13100 psi	ASTM D790
Flexural Modulus	3.52 GPa	511 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	3.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.81 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 °C @Thickness 3.18 mm	315 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	ALL; UL 94

Descriptive Properties	Value	Comments
Agency Ratings	FDA Unspecified Rating	

Appearance Descriptive Properties	Natural Color Value	Comments
Features	Chemically Coupled	
	Homopolymer	
	Specialty Grade	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 20% Filler by Weight	
Forms	Pellets	
Generic Material	PP Homopolymer	
Generic Name	Polypropylene Homopolymer (PP Homopolymer)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Disposable Hospital Goods	
	Hospital Goods	
	Medical Device Housings	
	Medical/Healthcare Applications	

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