

## PolyOne Trilliant™ HC X HC5200-0025 RS Natural Polypropylene Copolymer (PP Copolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Trilliant-HC-X-HC5200-0025-RS-Natural-Polypropylene-Copolymer-PP-Copolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-X-HC5200-0025-RS-Natural-Polypropylene-Copolymer-PP-Copolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	24.8 MPa	3600 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	37.9 MPa	5500 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.11 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	8.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	15.2 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256
Gardner Impact	9.26 J @Thickness 3.18 mm, Temperature -23.0 °C	6.83 ft-lb @Thickness 0.125 in, Temperature -9.40 °F	ASTM D3029
Dart Drop Total Energy	6.73 J/cm	0.0126 ft-lb/mil	Energy to Maximum Load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C @Thickness 3.18 mm	244 °F @Thickness 0.125 in	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
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<b>Additive</b> Descriptive Properties	<b>Impact Modifier</b> Value	Comments
Appearance	Natural Color	
Features	Copolymer	
	Impact Modified	
	Specialty Grade	
Filler / Reinforcement	Talc Filler	
Forms	Pellets	
Generic Material	PP Copolymer	
Generic Name	Polypropylene Copolymer (PP Copolymer)	
Processing Method	Injection Molding	
Regional Availability	North America	
Uses	Consumer Applications	
	Disposable Hospital Goods	
	Hospital Goods	
	Industrial Applications	
	Medical/Healthcare Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

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