



Trilliant™ HC X HC5200-0025 RS Natural

Polypropylene Copolymer

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Filler / Reinforcement	• Talc		
Additive	• Impact Modifier		
Features	• Copolymer	• Impact Modified	• Specialty Grade
Uses	• Consumer Applications	• Hospital Goods	• Medical/Healthcare Applications
	• Disposable Hospital Goods	• Industrial Applications	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05	ASTM D792
Specific Volume	26.4 in ³ /lb	0.954 cm ³ /g	ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.012 in/in	0.80 to 1.2 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation ² (Break)	60 %	60 %	ASTM D638
Flexural Modulus	290000 psi	2000 MPa	ASTM D790
Flexural Strength	5500 psi	37.9 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.1 ft·lb/in	59 J/m	
Unnotched Izod Impact ³			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	15 ft·lb/in	810 J/m	
Instrumented Dart Impact - Energy to Maximum Load	12.6 ft·lb/in	673 J/m	ASTM D3763
Gardner Impact			ASTM D3029
-9°F (-23°C), 0.125 in (3.18 mm)	82.0 in·lb	9.26 J	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	70	70	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	244 °F	118 °C	

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)

³ Injection Molded