



# Trilliant™ HC 5200-5003 X5 natural Polypropylene

## Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific • Europe
Filler / Reinforcement	• Talc, 40% Filler by Weight
Features	• Medium Flow • Specialty Grade
Uses	• Disposable Hospital Goods • Medical Devices • Hospital Goods • Medical/Healthcare Applications
Appearance	• Natural Color
Forms	• Granules
Processing Method	• Injection Molding

## Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 g/10 min	15 g/10 min	ISO 1133
Molding Shrinkage - Flow <sup>2</sup>	9.0E-3 in/in	0.90 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	638000 psi	4400 MPa	ISO 527
Tensile Strength (Yield, 73°F (23°C))	4500 psi	31.0 MPa	ISO 527
Tensile Elongation (Break, 73°F (23°C))	3.5 %	3.5 %	ISO 527
Flexural Modulus (73°F (23°C))	493000 psi	3400 MPa	ISO 178
Flexural Strength (73°F (23°C))	7250 psi	50.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.67 ft·lb/in <sup>2</sup>	1.4 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	9.5 ft·lb/in <sup>2</sup>	20 kJ/m <sup>2</sup>	ISO 179
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity (0.0787 in (2.00 mm))	1.3E+13 ohms	1.3E+13 ohms	IEC 60093
Volume Resistivity 73°F (23°C), 0.0787 in (2.00 mm)	2.2E+14 ohms·cm	2.2E+14 ohms·cm	IEC 60093
Electric Strength <sup>3</sup> 95°F (35°C), 0.0787 in (2.00 mm), in Oil	920 V/mil	36 kV/mm	IEC 60243-1
Relative Permittivity <sup>4</sup> 100 Hz, 0.0394 in (1.00 mm), 95°F (35°C)	2.58	2.58	IEC 60250
Dissipation Factor 95°F (35°C), 0.0394 in (1.00 mm), 100 Hz	0.021	0.021	IEC 60250
Comparative Tracking Index 0.118 in (3.00 mm)	600 V	600 V	IEC 60112

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

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<sup>2</sup> Tested on tensile bar

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<sup>3</sup> 5000 V/sec

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<sup>4</sup> Dielectric Constant



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