Trilliant™ HC HC5220-0040 RS Natural

Polypropylene

Key Characteristics

Product Description			
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.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Biocompatible • Chemical Resistant	• Good Colorability • Specialty Grade	
Uses	• Hospital Goods	• Medical/Healthcare Applications	
Agency Ratings	• USP Class VI		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 in/in	0.10 %	ASTM D955
Molding Shrinkage - Across Flow	0.014 in/in	1.4 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	8400 psi	57.9 MPa	ASTM D638
Tensile Elongation [2] (Break)	1.0 %	1.0 %	ASTM D638
Flexural Modulus	985000 psi	6790 MPa	ASTM D790
Flexural Strength	12900 psi	88.9 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	0.80 ft·lb/in	43 J/m	
Unnotched Izod Impact	4.0 ft·lb/in	210 J/m	ASTM D256
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	> 311 °F	> 155 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	280 °F	138 °C	
Melting Temperature	400 to 420 °F	204 to 216 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	80.0 to 100 °F	26.7 to 37.8 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 2.0 in/min (51 mm/min)

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