Trilliant™ HC HC3220-0030 RS Natural

Polycarbonate

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, 30% Filler by Weight		
Features	• Biocompatible • Chemical Resistant	• Good Colorability • Good Impact Resistance	• Specialty Grade
Uses	• Hospital Goods • Housings	• Medical Devices • 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
Density / Specific Gravity	1.41	1.41	ASTM D792
Molding Shrinkage - Flow	1.0E-3 in/in	0.10 %	ASTM D955
Molding Shrinkage - Across Flow	0.011 in/in	1.1 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	17000 psi	117 MPa	ASTM D638
Tensile Elongation [2] (Break)	9.0 %	9.0 %	ASTM D638
Flexural Modulus	1.05E+6 psi	7240 MPa	ASTM D790
Flexural Strength	27000 psi	186 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	2.3 ft·lb/in	120 J/m	
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)	> 289 °F	> 143 °C	
Melting Temperature	550 to 590 °F	288 to 310 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	200 °F	93 °C
Drying Time	3.0 hr	3.0 hr
Mold Temperature	150 to 170 °F	66 to 77 °C

Notes

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

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

Beyond Polymers.

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