

Trilliant™ HC HC5210-0020 RS Natural

Polypropylene Homopolymer

PolyOne Corporation

Message:

Trilliant™ HC HC5210-0020 RS Natural is a Polypropylene Homopolymer (PP Homopolymer) product filled with 20% filler and glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Trilliant™ HC HC5210-0020 RS Natural include medical/healthcare and food contact applications.

Characteristics include:

Flame Rated

Chemically Coupled

Homopolymer

General Information			
UL YellowCard	E76261-101515866		
Filler / Reinforcement	Filler,20% Filler by Weight Glass Fiber		
Features	Chemically Coupled Homopolymer Specialty Grade		
Uses	Disposable Hospital Goods Hospital Goods Medical Device Housings Medical/Healthcare Applications		
Agency Ratings	FDA Unspecified Rating		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Specific Volume	0.961	cm ³ /g	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	55.2	MPa	ASTM D638
Tensile Elongation ² (Break)	3.0	%	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	90.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	69	J/m	ASTM D256A
Unnotched Izod Impact ³ (23°C, 3.18 mm)	310	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	157	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ALL)	HB		UL 94
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Injection Molded		

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