

Trilliant™ HC HC0200-5001 XR Grey

Thermoplastic Elastomer

PolyOne Corporation

Message:

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 competition. When specified, Trilliant® compound may incorporate agency rated materials that meet USP Class IV, FDA or ISO 10993 testing requirements.

This Trilliant® grade is a high density specialty compound featuring a sustainable material solution for radiation shielding and weighting & balancing applications. The composite material offers a high performance thermoplastic-based alternative to lead. This compound has densities similar to traditional metals and provides greater flexibility in design and processing.

General Information			
Features	High specific gravity		
	Non-toxic		
Uses	Weights and balances		
	Radiation shielding		
	Shell		
	Medical/nursing supplies		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	8.00	g/cm ³	ISO 1183
Molding Shrinkage	0.50 - 1.5	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Break)	3.00	MPa	ISO 37
Tensile Elongation (Break)	200	%	ISO 37
Compression Set			ISO 815
23°C, 72 hr	20 - 30	%	ISO 815
70°C, 22 hr	80 - 90	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity ¹	1.0 - 2.0	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 - 1.0E+9	ohms	IEC 60093
Additional Information			
Shielding properties:Attenuation coefficient at 511 keV = 0.83cm-1Half Thickness at 511 keV = 0.84cm			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	4.0	hr
Processing (Melt) Temp	200 - 220	°C
Mold Temperature	20.0 - 40.0	°C

NOTE

1. Through Plane

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Recommended distributors for this material

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