PolyOne Trilliant[™] HC HC0200-5001 XR Grey Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

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.Shielding properties: Attenuation coefficient at 511 keV = 0.83cm-1 Half Thickness at 511 keV = 0.84cmInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-HC0200-5001-XR-Grey-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ISO 868
Tensile Strength at Break	3.00 MPa	435 psi	ISO 37
Elongation at Break	200 %	200 %	ISO 37
	20 - 30 %	20 - 30 %	
Compression Set	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	ISO 815
	80 - 90 %	80 - 90 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ISO 815

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.00 - 2.00 W/m-К	6.94 - 13.9 BTU-in/hr- ft²-°F	Through Plane; ASTM E1461

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	IEC 60093

Processing Properties	Metric	English	Comments	

SONGHAN Plastic Technology Co., Ltd.

Co., Ltd. www.lookpolym

www.lookpolymers.com email:sales@lookpolymers.com

Melt Temperature Processing Properties	200 - 220 °C Metric	292 - 428 °F English	Comments	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F		
Drying Temperature	80.0 °C	176 °F		
Dry Time	4.00 hour	4.00 hour		

Descriptive Properties	Value	Comments	
Appearance	Grey		
Features	High Specific Gravity		
	Non-Toxic		
Forms	Pellets		
Generic Material	TPE		
Generic Name	Thermoplastic Elastomer (TPE)		
Processing Method	Injection Molding		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Housings		
	Medical/Healthcare Applications		
	Radiation Shielding		
	Weighting & Balancing		

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com Email : sales@lookpolymers.com Tel : +86 021-51131842 Mobile : +86 13061808058 Skype : lookpolymers Address : United North Road 215,Fengxian District, Shanghai City,China