

Gravi-Tech™ GRV-TE1-090-W-NAT

Styrene Isoprene Styrene Block Copolymer

PolyOne Corporation

Message:

Gravi-Tech™ polymer-metal composites offer a high-performance thermoplastic-based alternative to lead and traditional metals. Using a variety of metallic fillers, these compounds have densities similar to traditional metals, while offering design and processing flexibility.

General Information			
Features	High Specific Gravity		
	Non-Toxic		
Uses	Industrial Applications		
	Medical/Healthcare Applications		
	Projectiles		
	Sporting Goods		
	Weighting & Balancing		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	8.98	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	370	%	ASTM D1708
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	1.57	MPa	
100% Strain	1.54	MPa	
200% Strain	1.41	MPa	
Injection	Nominal Value	Unit	
Drying Temperature	76.7	°C	
Processing (Melt) Temp	163 to 204	°C	
Mold Temperature	15.6 to 37.8	°C	

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