Gravi-Tech™ GRV-TE1-090-W-NAT

Styrene Isoprene Styrene Block Copolymer

Key Characteristics

Product Description			
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			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	9.00	9.00	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Elongation (Break)	370 %	370 %	ASTM D1708
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (50% Strain)	227 psi	1.57 MPa	ASTM D412
Tensile Stress (100% Strain)	224 psi	1.54 MPa	ASTM D412
Tensile Stress (200% Strain)	205 psi	1.41 MPa	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A)	65	65	ASTM D2240

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	170 °F	76.7 °C
Processing (Melt) Temp	325 to 400 °F	163 to 204 °C
Mold Temperature	60.0 to 100 °F	15.6 to 37.8 °C

Notes

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

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