



Gravi-Tech™ X GRV-TE1-045-SS-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	4.50	4.50	ASTM D792
Molding Shrinkage - Flow	0.013 to 0.020 in/in	1.3 to 2.0 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (50% Strain)	300 psi	2.07 MPa	ASTM D412
Tensile Strength (Break)	450 psi	3.10 MPa	ASTM D412
Tensile Elongation (Break)	800 %	800 %	ASTM D412
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A ²	70	70	
Shore A, 10 sec	65	65	

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.

² Instantaneous

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