



# Gravi-Tech™ GRV-TE1-060-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 <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	6.00	6.00	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Elongation (Break)	> 200 %	> 200 %	ASTM D1708
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (50% Strain)	300 psi	2.07 MPa	ASTM D412
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A)	64	64	ASTM D2240

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	360 to 390 °F	182 to 199 °C
Middle Temperature	370 to 400 °F	188 to 204 °C
Front Temperature	380 to 410 °F	193 to 210 °C
Nozzle Temperature	390 to 420 °F	199 to 216 °C
Mold Temperature	80 to 150 °F	27 to 66 °C

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.