

Gravi-Tech™ GRV-SF-040-CU-GF-NAT

Polyphenylene Sulfide
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 Flow		
	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	3.99	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.25	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	17200	MPa	ASTM D638
Tensile Strength ² (Yield)	66.2	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.0	%	ASTM D638
Flexural Modulus	14500	MPa	ASTM D790
Flexural Strength	121	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C, 6.35 mm, Injection Molded)	53	J/m	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	307 to 332	°C	
Mold Temperature	107 to 177	°C	
NOTE			
1.	Type I, 5.1 mm/min		

2.	Type I, 5.1 mm/min
3.	Type I, 5.1 mm/min
4.	Method A

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