

Gravi-Tech™ GRV AS-020-MN

Acrylonitrile Butadiene Styrene

Key Characteristics

Product Description

Avient's 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	• Europe	
Filler / Reinforcement	• Mineral		
Features	• High Specific Gravity		
Uses	• Appliance Components • Automotive Applications • Caps	• Consumer Applications • Handles • Industrial Applications	• Metal Replacement • Sporting Goods • Weighting & Balancing
RoHS Compliance	• RoHS Compliant		
Appearance	• White		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	2.00 g/cm ³	2.00 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0 to 15 g/10 min	5.0 to 15 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	3.0 to 13 cm ³ /10min	3.0 to 13 cm ³ /10min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	761000 psi	5250 MPa	ISO 527-1
Tensile Stress (Break, 73°F (23°C))	5080 psi	35.0 MPa	ISO 527-2/50
Tensile Strain (Break, 73°F (23°C))	0.70 %	0.70 %	ISO 527-2/50
Flexural Modulus (73°F (23°C))	761000 psi	5250 MPa	ISO 178
Flexural Stress (73°F (23°C))	7250 psi	50.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.48 ft·lb/in ²	1.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 179/1eU
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	194 °F	90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	419 to 482 °F	215 to 250 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

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Notes

¹ Typical values are not to be construed as specifications.

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