



Gravi-Tech™ GT6200-5002 X4 Black Polyamide 12

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Density	• Non-Toxic	
Uses	• Industrial Applications • Medical/Healthcare Applications	• Projectiles • Radiation Shielding	• Sporting Goods • Weighting & Balancing
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	9.00 g/cm ³	9.00 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	1.74E+6 psi	12000 MPa	ISO 527-2
Tensile Stress (Yield, 73°F (23°C))	9210 psi	63.5 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	0.70 %	0.70 %	ISO 527-2
Flexural Modulus (73°F (23°C))	1.78E+6 psi	12300 MPa	ISO 178
Flexural Stress (73°F (23°C))	12800 psi	88.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in ²	6.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	6.2 ft·lb/in ²	13 kJ/m ²	ISO 179

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr

Notes

¹ Typical values are not to be construed as specifications.

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