



Gravi-Tech™ GRV-NP-069-BMX

Polyamide 12

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Non-Toxic		
Uses	• Industrial Applications	• Projectiles	• Sporting Goods
	• Medical/Healthcare Applications	• Radiation Shielding	• Weighting & Balancing
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	6.90	6.90	ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 6.0E-3 in/in	0.50 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.10E+6 psi	7580 MPa	ASTM D638
Tensile Strength ² (Yield)	6500 psi	44.8 MPa	ASTM D638
Tensile Elongation ² (Break)	1.8 %	1.8 %	ASTM D638
Flexural Modulus	720000 psi	4960 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.1 ft-lb/in	110 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	318 °F	159 °C	

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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