



Gravi-Tech™ GT6000-0060-01 LAVA BLACK

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • High Density	• High Specific Gravity • Non-Toxic	
Uses	• Appliance Components • Appliances • Caps • Closures	• Consumer Applications • Cosmetic Packaging • Industrial Applications • Projectiles	• Sporting Goods • Weighting & Balancing
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	6.00	6.00	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
Molding Shrinkage - Across Flow (0.125 in (3.18 mm))	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ² (0.125 in (3.18 mm))	2.27E+6 psi	15700 MPa	ASTM D638
Tensile Strength ² (Yield, 0.125 in (3.18 mm))	8000 psi	55.2 MPa	ASTM D638
Tensile Elongation ² Yield, 0.125 in (3.18 mm)	2.6 %	2.6 %	ASTM D638
Flexural Modulus ³ (0.125 in (3.18 mm))	2.21E+6 psi	15200 MPa	ASTM D790
Flexural Strength ³ Yield, 0.125 in (3.18 mm)	12800 psi	88.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm)	1.0 ft·lb/in	53 J/m	ASTM D256
Unnotched Izod Impact 73°F (23°C), 0.125 in (3.18 mm)	2.6 ft·lb/in	140 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	394 °F	201 °C	ASTM D648

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.050 in/min (1.3 mm/min)

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