



Gravi-Tech™ GRV-NY-035-SS-GF-BLK

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• 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		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	3.35	3.34 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0030 in/in	0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	2.25E+6 psi	15500 MPa	ASTM D638
Tensile Strength ² (Yield)	13000 psi	89.6 MPa	ASTM D638
Tensile Elongation ² (Break)	1.0 %	1.0 %	ASTM D638
Flexural Modulus	2.24E+6 psi	15400 MPa	ASTM D790
Flexural Strength	21000 psi	145 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	1.0 ft·lb/in	53 J/m	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	160 to 180 °F	71.1 to 82.2 °C
Processing (Melt) Temp	510 to 560 °F	266 to 293 °C
Mold Temperature	180 to 275 °F	82.2 to 135 °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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