



Gravi-Tech™ GRV-NY-030-SS

Polyamide 6

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	3.00	2.99 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0060 to 0.0090 in/in	0.60 to 0.90 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.05E+6 psi	7240 MPa	ASTM D638
Tensile Strength ² (Yield)	9900 psi	68.3 MPa	ASTM D638
Tensile Elongation ² (Break)	1.7 %	1.7 %	ASTM D638
Flexural Modulus	830000 psi	5720 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	1.0 ft-lb/in	53 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	300 °F	149 °C	ASTM D648

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	175 °F	79.4 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	500 to 550 °F	260 to 288 °C
Mold Temperature	180 to 300 °F	82.2 to 149 °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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