



Gravi-Tech™ GT6000-8028 GRV NC001

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• High Specific Gravity	• Non-Toxic	
Uses	• Appliance Components • Automotive Applications • Consumer Applications • Handles	• Industrial Applications • Knobs • Medical/Healthcare Applications • Metal Replacement	• 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	3.00	3.00	ASTM D792
Molding Shrinkage - Flow	4.0E-3 in/in	0.40 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	8120 psi	56.0 MPa	ASTM D638
Flexural Modulus ³	1.74E+6 psi	12000 MPa	ASTM D790
Flexural Strength ³	14500 psi	100 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	0.45 ft·lb/in	24 J/m	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.0 mm/min)

³ 0.050 in/min (1.3 mm/min)