



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)

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CONTACT INFORMATION**Americas**

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314



Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe

6 Giällewee
+352 269 050 35

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