



Gravi-Tech™ GT6000-5002 White FD

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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	2.70 g/cm ³	2.70 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.16E+6 psi	8000 MPa	ISO 527-2
Tensile Stress (Break)	10200 psi	70.0 MPa	ISO 527-2
Tensile Strain (Break)	1.5 %	1.5 %	ISO 527-2
Flexural Modulus	885000 psi	6100 MPa	ISO 178
Flexural Stress	11600 psi	80.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	11 ft·lb/in ²	23 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	
Thermal Conductivity ² (73°F (23°C))	9.0 Btu·in/hr/ft ² /°F	1.3 W/m/K	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50.0 to 90.0 °C

Notes

¹ Typical values are not to be construed as specifications.

² Through-Plane, measured with C-Therm TCi apparatus, using the Modified Transient Plane Source technique.

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