



Gravi-Tech™ GT5200-5003 black FD

Polypropylene Homopolymer

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 / Specific Gravity	2.50	2.50	ISO 1183
Molding Shrinkage - Flow	7.0E-3 to 0.012 in/in	0.70 to 1.2 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	435000 psi	3000 MPa	ISO 527
Tensile Strength ² (Yield)	2030 psi	14.0 MPa	ISO 527
Tensile Elongation ² (Break)	> 10 %	> 10 %	ISO 527
Flexural Modulus ³	551000 psi	3800 MPa	ISO 178
Flexural Strength ³	3630 psi	25.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	1.2 ft·lb/in ²	2.5 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	374 to 446 °F	190 to 230 °C
Mold Temperature	86 to 158 °F	30 to 70 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ 0.050 in/min (1.3 mm/min)