



## Gravi-Tech™ GT5200-0002 Black Polypropylene Alloy

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Non-Toxic • Specialty Grade		
Uses	• Appliance Components • Consumer Applications	• Industrial Applications • Sporting Goods	• Weighting & Balancing
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	2.60	2.60	ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 9.0E-3 in/in	0.60 to 0.90 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Yield)	529 psi	3.65 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	25 %	25 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A)	94	94	ASTM D2240

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	125 °F	52 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	420 to 470 °F	216 to 243 °C
Middle Temperature	430 to 480 °F	221 to 249 °C
Front Temperature	440 to 490 °F	227 to 254 °C
Nozzle Temperature	450 to 500 °F	232 to 260 °C
Mold Temperature	100 to 150 °F	38 to 66 °C

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 2.0 in/min (51 mm/min)