Gravi-Tech™ GT5200-5003 grey VN8421 CF 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]	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 [3]	421000 psi	2900 MPa	ISO 527
Tensile Strength [3] (Yield)	1890 psi	13.0 MPa	ISO 527
Tensile Elongation [3] (Break)	> 5.0 %	> 5.0 %	ISO 527
Flexural Modulus [4]	566000 psi	3900 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	0.95 ft·lb/in²	2.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	3.8 ft·lb/in²	8.0 kJ/m²	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] +/-0.2

[3] Type I, 0.20 in/min (5.1 mm/min)

[4] 0.050 in/min (1.3 mm/min)