Gravi-Tech™ GRV PP-030-IO Black FD

Polypropylene Homopolymer

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• High Specific Gravity	• Non-Toxic	
Uses	• Appliance Components • Automotive Applications • Consumer Applications • Handles	• Industrial Applications • Knobs • Metal Replacement • Non-specific Food Applications	• Sporting Goods • Weighting & Balancing
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	3.00 g/cm³	3.00 g/cm³	ISO 1183
Molding Shrinkage - Flow [2]	0.50 to 0.80 %	0.50 to 0.80 %	ISO 294-4
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	464000 psi	3200 MPa	ISO 527-2
Tensile Stress (Break, 73°F (23°C))	1600 psi	11.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	0.30 to 1.3 %	0.30 to 1.3 %	ISO 527-2
Flexural Modulus (73°F (23°C))	537000 psi	3700 MPa	ISO 178
Flexural Stress (73°F (23°C))	2610 psi	18.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	1.2 ft·lb/in²	2.5 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	2.1 ft·lb/in²	4.5 kJ/m²	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	428 to 464 °F	220 to 240 °C
Mold Temperature	86 to 212 °F	30 to 100 °C
Injection Rate	Fast	Fast

Notes

[1] Typical values are not to be construed as specifications.

[2] Measured on tensile bars