

Gravi-Tech™ GRV NJ-090-W Black SO1

Polyamide 12
PolyOne Corporation

Message:

Gravi-Tech™ GRV NJ-090-W Black SO1 is a Polyamide 12 (Nylon 12) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Gravi-Tech™ GRV NJ-090-W Black SO1 include industrial applications, medical/healthcare and sporting goods. Primary characteristic: non-toxic.

General Information			
Features	High Density		
	Non-Toxic		
Uses	Industrial Applications		
	Medical/Healthcare Applications		
	Projectiles		
	Radiation Shielding		
	Sporting Goods		
	Weighting & Balancing		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	8.85	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm)	11500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C, 4.00 mm)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C, 4.00 mm)	0.50 to 1.2	%	ISO 527-2/5
Flexural Modulus ¹ (23°C, 4.00 mm)	12400	MPa	ISO 178
Flexural Stress ² (23°C, 4.00 mm)	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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