

Gravi-Tech™ GRV-NY-060-CU

Polyamide 6
PolyOne Corporation

Message:

Gravi-Tech™ GRV-NY-060-CU is a Polyamide 6 (Nylon 6) 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-NY-060-CU include industrial applications, medical/healthcare and sporting goods. Primary characteristic: non-toxic.

General Information			
Features	Non-Toxic		
Uses	Industrial Applications		
	Medical/Healthcare Applications		
	Projectiles		
	Sporting Goods		
	Weighting & Balancing		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	5.99	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	16500	MPa	ASTM D638
Tensile Strength ² (Yield)	45.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.2	%	ASTM D638
Flexural Modulus	14500	MPa	ASTM D790
Flexural Strength (Yield)	> 70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	> 2.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	> 6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.35 mm)	152	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 288	°C	
Mold Temperature	82.2 to 149	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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