

PolyOne Gravi-Tech™ GRV-NY-112-W-NAT Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Gravi-Tech-GRV-NY-112-W-NAT-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	11.2 g/cc	11.2 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0065 cm/cm	0.0030 - 0.0065 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9010 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	0.50 %	0.50 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	20.7 GPa	3000 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	2.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	4.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	188 °C	370 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 288 °C	500 - 550 °F	
Mold Temperature	82.2 - 149 °C	180 - 300 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	4.00 hour	4.00 hour	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Appearance	Natural Color		
Features	High Specific Gravity		
	Non-Toxic		
Forms	Pellets		
Generic Material	Nylon 6		
Generic Name	Polyamide 6 (Nylon 6)		
Processing Method	Injection Molding		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Industrial Applications		
	Medical/Healthcare Applications		
	Projectiles		
	Sporting Goods		
	Weighting & Balancing		

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