

## PolyOne Gravi-Tech™ GRV-NJ-110-W Polyamide 12 (Nylon 12)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Gravi-Tech-GRV-NJ-110-W-Polyamide-12-Nylon-12.php](http://www.lookpolymers.com/polymer_PolyOne-Gravi-Tech-GRV-NJ-110-W-Polyamide-12-Nylon-12.php)

Physical Properties	Metric	English	Comments
Specific Gravity	11.0 g/cc	11.0 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.8 MPa	6500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	155 °C @Thickness 6.35 mm	311 °F @Thickness 0.250 in	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	

Descriptive Properties	Value	Comments
Features	High Density	

Descriptive Properties	Non-Toxic Value	Comments
Forms	Pellets	
Generic Material	Nylon 12	
Generic Name	Polyamide 12 (Nylon 12)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Industrial Applications	
	Medical/Healthcare Applications	
	Projectiles	
	Radiation Shielding	
	Sporting Goods	
	Weighting & Balancing	

## Contact Songhan Plastic Technology Co.,Ltd.

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