

## PolyOne Gravi-Tech™ GRV-NY-085-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-085-W-NAT-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Gravi-Tech-GRV-NY-085-W-NAT-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	8.48 g/cc	8.48 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.011 cm/cm	0.0050 - 0.011 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	1.0 %	1.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	2.90 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.43 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)	192 °C	378 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 288 °C	520 - 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		

## Contact Songhan Plastic Technology Co.,Ltd.

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