

PolyOne Gravi-Tech™ GRV-NY-027-SS-BLK-F 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-027-SS-BLK-F-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.69 g/cc	2.69 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113 @Temperature 23.0 °C	113 @Temperature 73.4 °F	ASTM D785
Tensile Strength, Yield	62.1 MPa	9010 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	5.52 GPa	801 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	1.3 mm/min; ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	4.30 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	8.06 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)	87.8 °C	190 °F	Unannealed; ASTM D648
Vicat Softening Point	212 °C	414 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 559 °F	

Processing Properties	Metric	English	Comments
	135 °C	175 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Black	
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	Appliance Components	
	Automotive Applications	
	Consumer Applications	
	Handles	
	Industrial Applications	
	Knobs	
	Medical/Healthcare Applications	
	Metal Replacement	
	Sporting Goods	
	Weighting & Balancing	

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