

PolyOne Nymax™ GF 1200 60 HS Black 22 Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Nymax® GF 1200 Series of glass fiber-reinforced nylon 6/6 compounds have been specifically formulated for applications requiring high stiffness, tensile properties, heat resistance, and durability in harsh environments. These materials are available in a broad range of reinforcement levels depending upon stiffness characteristics desired and have been formulated to offer ease of processing in most standard thermoplastic processing equipment. Molded Test Bars: Dry as Molded. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF-1200-60-HS-Black-22-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ASTM D792
Water Absorption	0.50 % @Thickness 3.18 mm	0.50 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	228 MPa	33100 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	15.2 GPa	2200 ksi	ASTM D638
Flexural Strength	331 MPa	48000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Izod Impact, Notched	1.70 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	3.18 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	255 °C @Thickness 3.18 mm	491 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 107 °C	140 - 225 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4.00 hour	4.00 hour	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additive	Heat Stabilizer		
Appearance	Black		
Features	General Purpose		
	Heat Stabilized		
Filler / Reinforcement	Glass Fiber Reinforcement, 60% Filler by Weight		
Forms	Pellets		
Generic Material	Nylon 66		
Generic Name	Polyamide 66 (Nylon 66)		
Processing Method	Injection Molding		
Regional Availability	North America		
	South America		
Uses	Automotive Applications		
	Construction Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		

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