

PolyOne Nymax™ GF 1200 A 55 HS Black 13 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-A-55-HS-Black-13-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Water Absorption	0.60 % @Thickness 3.18 mm	0.60 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength	215 MPa	31200 psi	5.0 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
	15.5 GPa	2250 ksi	25 mm/min; ISO 178
Izod Impact, Notched	1.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.62 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Notched (ISO)	12.0 kJ/m²	5.71 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	257 °C @Thickness 3.18 mm	495 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	248 °C	478 °F	Unannealed; ISO 75-2

Thermal Properties	Metric	English	Comments
	@Thickness 3.18 mm	@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	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Appearance	Black	
Features	Heat Stabilized	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 55% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	North America	
	South America	

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