

PolyOne Nymax™ GF 600 A 33 HS7 DX9 Black Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

The Nymax® GF 600 Series of glass fiber-reinforced nylon 6 compounds have been specifically engineered for applications requiring high stiffness, tensile strength, and toughness, while providing enhanced surface appearance versus nylon 6/6 compounds. 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-600-A-33-HS7-DX9-Black-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	@ 24 hrs; ASTM D570
	1.0 %	1.0 %	24h/23C; ISO 62
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	0.965 MPa	140 psi	ISO 527-2
	165 MPa	23900 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Elongation at Yield	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.27 GPa	1200 ksi	ASTM D638
	8.30 GPa	1200 ksi	ISO 527-2
Flexural Strength	1.52 MPa	220 psi	ISO 178
	241 MPa	35000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
	8.30 GPa	1200 ksi	ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Injection Molded; ASTM D256A

Mechanical Properties	Metric @Thickness 3.18 mm, Temperature 23.0 °C	English @Thickness 0.125 in, Temperature 73.4 °F	Comments
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Annealed; ISO 75-2/A
	206 °C @Thickness 3.18 mm	403 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 93.3 °C	120 - 200 °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	
Automotive Specifications	CHRYSLER MS-DB41 CPN2625	
Features	General Purpose	
	Good Weather Resistance	
	Heat Stabilized	
Filler / Reinforcement	Glass Fiber Reinforcement, 33% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	

Descriptive Properties	Consumer Applications Value	Comments
General Purpose		
Industrial Applications		

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