Nymax™ GF 600 A 33 UV XDB Light Slate

Polyamide 6

Key Characteristics

Product Description
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.

General			
Material Status	• Commercial: Active		
Regional Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 33% Filler by Weight		
Additive	• UV Stabilizer		
Features	• General Purpose	• Good UV Resistance	• Good Weather Resistance
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Gray		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
Density	1.37 g/cm³	1.37 g/cm³	ISO 1183
Molding Shrinkage - Flow	0.0020 to 0.0040 in/in	0.20 to 0.40 %	ASTM D955
Molding Shrinkage	0.20 to 0.40 %	0.20 to 0.40 %	ISO 294-4
Water Absorption (24 hr)	0.90 %	0.90 %	ASTM D570
Water Absorption (73°F (23°C), 24 hr)	1.0 %	1.0 %	ISO 62
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.15E+6 psi	7930 MPa	ASTM D638
Tensile Modulus	8300 psi	57.2 MPa	ISO 527-2
Tensile Strength [2] (Yield)	22300 psi	153 MPa	ASTM D638
Tensile Stress (Yield)	140 psi	0.965 MPa	ISO 527-2
Tensile Elongation [2] (Yield)	3.0 %	3.0 %	ASTM D638
Tensile Strain (Break)	4.0 %	4.0 %	ISO 527-2
Flexural Modulus	1.15E+6 psi	7930 MPa	ASTM D790
Flexural Modulus	8400 psi	57.9 MPa	ISO 178
Flexural Strength	32000 psi	221 MPa	ASTM D790
Flexural Strength	220 psi	1.52 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.90 ft·lb/in	101 J/m	
Notched Izod Impact Strength	8.10 ft·lb/in²	17.0 kJ/m²	ISO 180

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	402 °F	206 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Annealed	392 °F	200 °C	
Additional Properties			
Molded Test Bars: Dry as Molded			

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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