



Nymax™ GF 600 A 33 UV ZJ1 Light Khaki 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	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Appearance	• Tan		
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/cm ³	1.37 g/cm ³	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)	22500 psi	155 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	2.00 ft-lb/in	107 J/m	
Notched Izod Impact Strength	8.00 ft-lb/in ²	16.8 kJ/m ²	ISO 180

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

CONTACT INFORMATION

Americas

Argentina - Buenos Aires
+0054 11 4200 5917

Brasil - Campinas
+55 19 3206 0561

Mexico - Toluca
+52 722 2790200

United States - Avon Lake
+1 440 930 1000

Asia

China - Shenzhen
+86 (0) 755 2969 2888

China - Suzhou
+86 (0) 512 6823 24 38

India - Mumbai
+91 9820 194 220

Singapore - Singapore
+65 (0) 6861 9325

Europe

Germany - Gaggenau
+49 (0) 7225 6802 0

Spain - Barbastró (Huesca)
+34 (0) 9 7431 0314

Turkey - Cekmece-Istanbul-Türkiye
+90 (0) 212 549 2256

United Kingdom - Widnes
+44 (0) 05600 760 800



Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 (0) 21 5080 1188

PolyOne Europe

2 Rue Melville Wilson
5330 Assesse, Belgium
+32 (0) 83 660 211