

Nymax[™] GF 1200 A 33 HS White 247 A Polyamide 66

Key Characteristics

Product Description

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

General

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

Technical Properties¹

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.35	1.35	ASTM D792
Molding Shrinkage - Flow	0.0020 to in/in 0.0040	0.20 to 0.40 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.0 %	1.0 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.20E+6 psi	8270 MPa	ASTM D638
Tensile Strength ² (Break)	23000 psi	159 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 to 4.0 %	2.0 to 4.0 %	ASTM D638
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength	24000 psi	165 MPa	ASTM D790
mpact	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	1.20 ft·lb/in	64.1 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	464 °F	240 °C	
Additional Properties			
Moldod Toot Para: Dry on Moldod			

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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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 - Barbastro (Huesca) +34 (0) 9 7431 0314 Turkey - Cekmece-Istanbul-Türkiye +90 (0) 212 549 2256 United Kingdom - Widnes +44 (0) 05600 760 800

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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

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