

Technical Data

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		
Literature ¹	Technical Datasheet		
UL Yellow Card ²	• E76261-101482582		
Search for UL Yellow Card	 Avient Corporation Nymax[™] 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	Glass Fiber, 33% Filler by Weight		
Features	General Purpose		
Uses	Automotive ApplicationsConstruction Applications	Consumer ApplicationsGeneral Purpose	Industrial Applications
Appearance	 Natural Color 		
Forms	Pellets		
Processing Method	 Injection Molding 		

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Physical	Nominal Value Unit	lest Method
Density / Specific Gravity	1.39 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	10300 MPa	ISO 527
Tensile Strength (Break)	180 MPa	ISO 527
Tensile Elongation		
Yield ⁴	4.0 %	ASTM D638
Break	12 %	ISO 527
Flexural Modulus		
	8700 MPa	ASTM D790
	9310 MPa	ISO 178
Flexural Strength	260 MPa	ASTM D790 ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C, 3.18 mm, Injection Molded	130 J/m	ASTM D256A
Partial Break	15 kJ/m²	ISO 180
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Annealed, 3.18 mm	204 °C	ASTM D648
1.8 MPa, Annealed	202 °C	ISO 75-2/A
Melting Temperature	220 °C	ASTM D789
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94

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Additional Information

Molded Test Bars: Dry as Molded

Injection	Nominal Value Unit	
Drying Temperature	82 °C	
Drying Time	4.0 hr	
Suggested Max Moisture	0.060 to 0.12 %	
Rear Temperature	249 to 277 °C	
Middle Temperature	260 to 288 °C	
Front Temperature	271 to 299 °C	
Nozzle Temperature	268 to 296 °C	
Mold Temperature	66 to 110 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

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³ Typical properties: these are not to be construed as specifications.

⁴ Type I, 5.1 mm/min



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