



Nymax™ GF 1800 43 Natural Polyamide 612

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• North America	• South America
Filler / Reinforcement	• Glass Fiber Reinforcement • Unspecified Filler\Reinfor., 43% Filler by Weight	
Appearance	• Natural Color	
Forms	• Pellets	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.43	1.43	ASTM D792
Molding Shrinkage - Flow	0.0020 in/in	0.20 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.20 %	0.20 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Break)	24800 psi	171 MPa	ASTM D638
Tensile Elongation ² (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus	1.50E+6 psi	10300 MPa	ASTM D790
Flexural Strength	37000 psi	255 MPa	ASTM D790
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	2.40 ft-lb/in	128 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	410 °F	210 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	392 °F	200 °C	
Melting Temperature	419 °F	215 °C	ASTM D789
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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