

NymaxTM GF 1800 43 Black 22 Polyamide 612

Kev Characteristics

General	,	
Material Status	Commercial: Active	
Regional Availability	North America	South America
Filler / Reinforcement	Glass Fiber Reinforcemen	Unspecified Filler\Reinfor., 43% Filler by Weight
Appearance	Black	
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)	24200 psi	167 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	2.30 ft·lb/in	123 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					
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Molded Test Bars: Dry as Molded

Notes

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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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