



# Nymax™ GF600 A13 H UV830K

## Polyamide 6

### Key Characteristics

Product Description	
Heat and UV resistant	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Features	• Medium Heat Resistance • UV Resistant
Appearance	• Black
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 8.0E-3 in/in	0.40 to 0.80 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	16700 psi	115 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	725000 psi	5000 MPa	ASTM D790
Flexural Strength <sup>3</sup>	26100 psi	180 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.5 ft-lb/in	80 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	374 °F	190 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	464 to 536 °F	240 to 280 °C
Middle Temperature	464 to 536 °F	240 to 280 °C
Front Temperature	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C

Injection Notes
Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 0.20 in/min (5.0 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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