

# Nymax™ 600 A Zip 43 Natural A

Polyamide 6 Alloy  
Avient Corporation

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## Technical Data

### Product Description

The Nymax® 600 Blend Series of nylon 6 materials are "salt-and-pepper" pelletized blends combining select nylon resins and process aids, performance modifiers, and color concentrates. These materials have been formulated to provide improved melt processing, part performance, or surface appearance depending upon grade selected and are offered as an economical alternative to fully compounded products.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>
Search for UL Yellow Card	• <a href="#">Avient Corporation</a> • <a href="#">Nymax™</a>
Availability	• Latin America • North America
Features	• General Purpose • Nucleated
Uses	• Automotive Applications • Consumer Applications • Construction Applications • General Purpose • Industrial Applications
Agency Ratings	• NSF STD-51 • NSF STD-61
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.14 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.0 %	ASTM D955
Water Absorption (24 hr, 3.18 mm)	1.5 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2960 MPa	ASTM D638
Tensile Strength <sup>3</sup> (Break)	85.5 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	20 %	ASTM D638
Flexural Modulus	2960 MPa	ASTM D790
Flexural Strength	124 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact 23°C, 3.18 mm, Injection Molded	53 J/m	ASTM D256A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 3.18 mm	65.0 °C	ASTM D648
Melting Temperature	220 °C	ASTM D789

### Additional Information

Molded Test Bars: Dry as Molded



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Injection	Nominal Value Unit
Drying Temperature	82 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.10 to 0.20 %
Rear Temperature	221 to 249 °C
Middle Temperature	238 to 266 °C
Front Temperature	243 to 282 °C
Nozzle Temperature	241 to 279 °C
Mold Temperature	49 to 93 °C

## Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Type I, 5.1 mm/min

