



Nymax™ 600 A Zip 43 Natural

Polyamide 6 Alloy

Key Characteristics

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
Regional Availability	• North America • South America
Features	• General Purpose • Nucleated
Uses	• Automotive Applications • Consumer Applications • Industrial Applications • Construction Applications • General Purpose
Agency Ratings	• NSF 51 • NSF 61
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.14	1.14	ASTM D792
Molding Shrinkage (Flow)	0.0080 to in/in 0.010	0.80 to 1.0 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.5 %	1.5 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	430000 psi	2960 MPa	ASTM D638
Tensile Strength ² (Break)	12400 psi	85.5 MPa	ASTM D638
Tensile Elongation ² (Break)	20 %	20 %	ASTM D638
Flexural Modulus	430000 psi	2960 MPa	ASTM D790
Flexural Strength	18000 psi	124 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	1.00 ft-lb/in	53.4 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	149 °F	65.0 °C	
Melting Temperature	428 °F	220 °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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