Nymax™ 600 A 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	• Latin America	• North America	
Features	• General Purpose		
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Automotive Specifications	• GM GMP.PA6.033 Color: Natural		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14	ASTM D792
Molding Shrinkage - Flow	0.012 in/in	1.2 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.6 %	1.6 %	ASTM D570
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (Break)	11300 psi	77.9 MPa	ASTM D638
Tensile Elongation [2] (Break)	80 %	80 %	ASTM D638
Flexural Modulus	390000 psi	2690 MPa	ASTM D790
Flexural Strength	15000 psi	103 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	1.2 ft·lb/in	64 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)	302 °F	150 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	140 °F	60.0 °C	
Melting Temperature	419 °F	215 °C	ASTM D789

Additional Information

Molded Test Bars: Dry as Molded

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82 °C

Injection	Typical Value (English)	Typical Value (SI)
Drying Time	4.0 hr	4.0 hr
Mold Temperature	120 to 200 °F	49 to 93 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)