

Nymax™ 1010 A Natural

Polyamide 6

Avient Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

The Nymax® Series of nylon 6 compounds have been specifically developed to deliver outstanding performance in a wide range of application areas. These materials are available with a broad range of fillers, glass reinforcement levels, and impact modifiers depending upon grade selected and have been formulated to offer ease of processing in most standard thermoplastic processing equipment.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• Avient Corporation • Nymax™
Availability	• Latin America • North America
Additive	• Impact Modifier
Features	• General Purpose • Impact Modified
Uses	• Automotive Applications • Consumer Applications • Construction Applications • General Purpose • Industrial Applications
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.08 g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.0 to 1.3 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Break)	49.6 MPa	ASTM D638
Tensile Elongation ³ (Break)	50 %	ASTM D638
Flexural Modulus	1650 MPa	ASTM D790
Flexural Strength	68.9 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256A
-40°C, 3.18 mm, Injection Molded	210 J/m	
23°C, 3.18 mm, Injection Molded	910 J/m	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed, 3.18 mm	50.0 °C	

Additional Information

Molded Test Bars: Dry as Molded

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 254 °C
Middle Temperature	227 to 260 °C
Front Temperature	238 to 271 °C
Nozzle Temperature	235 to 268 °C
Mold Temperature	49 to 93 °C



Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ Type I, 5.1 mm/min

