Nymax™ NM6000-0001 RS IM Nat

Polyamide 6

Key Characteristics

Product Description
The Nymax® 600 Series of mineral-reinforced nylon 6 compounds have been specifically developed to provide an excellent balance of physical property performance and durability, with improved surface appearance. These materials have been formulated to offer ease of processing in most standard thermoplastic processing equipment.

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Appearance	• Natural Color	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3 in/in	0.30 to 0.50 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]	11000 psi	75.8 MPa	ASTM D638
Flexural Modulus [3]	597000 psi	4120 MPa	ASTM D790
Flexural Strength [3]	17500 psi	121 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)	1.8 ft·lb/in	96 J/m	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	464 to 550 °F	240 to 288 °C
Middle Temperature	464 to 550 °F	240 to 288 °C
Front Temperature	464 to 550 °F	240 to 288 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

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

Notes

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

[2] 2.0 in/min (51 mm/min)

[3] 0.50 in/min (13 mm/min)