

PolyOne Nymax™ 600 A Zip 43 Natural Polyamide 6 Alloy (Nylon 6 Alloy)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

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. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-600-A-Zip-43-Natural-Polyamide-6-Alloy-Nylon-6-Alloy.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------|------------------------------|---------------------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | ASTM D792 |
| Water Absorption | 1.5 % @Thickness 3.18 mm | 1.5 % @Thickness 0.125 in | @ 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0080 - 0.010 cm/cm | 0.0080 - 0.010 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------------------------------|---------------------------------------------------------------|-------------------------------|
| Tensile Strength at Break | 85.5 MPa | 12400 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 20 % | 20 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 2.96 GPa | 429 ksi | ASTM D638 |
| Flexural Strength | 124 MPa | 18000 psi | ASTM D790 |
| Flexural Modulus | 2.96 GPa | 429 ksi | ASTM D790 |
| Izod Impact, Notched | 0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|-------------------------------|-------------------------------|-----------------------|
| Melting Point | 220 °C | 428 °F | ASTM D789 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 °C @Thickness 3.18 mm | 149 °F @Thickness 0.125 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|----------|
| Mold Temperature | 48.9 - 93.3 °C | 120 - 200 °F | |
| Drying Temperature | 82.2 °C | 180 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|----------|
| Dry Time | 4.00 Hour | 4.00 Hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------------------|----------|
| Agency Ratings | NSF 51 | |
| | NSF 61 | |
| Appearance | Natural Color | |
| Features | General Purpose | |
| | Nucleated | |
| Forms | Pellets | |
| Generic Material | Nylon 6 Alloy | |
| Generic Name | Polyamide 6 Alloy (Nylon 6 Alloy) | |
| Processing Method | Injection Molding | |
| Regional Availability | North America | |
| | South America | |
| Uses | Automotive Applications | |
| | Construction Applications | |
| | Consumer Applications | |
| | General Purpose | |
| | Industrial Applications | |

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