

PolyOne Nymax™ GF 1200 A 43 Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Nymax® GF 1200 Series of glass fiber-reinforced nylon 6/6 compounds have been specifically formulated for applications requiring high stiffness, tensile properties, heat resistance, and durability in harsh environments. These materials are available in a broad range of reinforcement levels depending upon stiffness characteristics desired and have been formulated to offer ease of processing in most standard thermoplastic processing equipment. Molded Test Bars: Dry as Molded. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF-1200-A-43-Natural-Polyamide-66-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|------------------------------|-------------------------------|---------------------|
| Specific Gravity | 1.50 g/cc | 1.50 g/cc | ASTM D792 |
| Water Absorption | 0.60 % @Thickness 3.18 mm | 0.60 % @Thickness 0.125 in | @ 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|--|-------------------------------|
| Tensile Strength at Break | 221 MPa | 32100 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 2.5 % | 2.5 % | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Strength | 290 MPa | 42100 psi | ASTM D790 |
| Flexural Modulus | 12.1 GPa | 1750 ksi | ASTM D790 |
| Izod Impact, Notched | 1.60 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 3.00 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|-----------------------|
| Melting Point | 260 °C | 500 °F | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 257 °C @Thickness 3.18 mm | 495 °F @Thickness 0.125 in | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 252 °C @Thickness 3.18 mm | 486 °F @Thickness 0.125 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Mold Temperature | 60.0 - 107 °C | 140 - 225 °F | |

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

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Appearance | Natural Color | |
| Features | General Purpose | |
| Filler / Reinforcement | Glass Fiber Reinforcement | |
| | Unspecified FillerReinfor., 43% Filler by Weight | |
| Forms | Pellets | |
| Generic Material | Nylon 66 | |
| Generic Name | Polyamide 66 (Nylon 66) | |
| 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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