

PolyOne Nymax™ GF 924 33 UV Black 108 Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Property data for 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-924-33-UV-Black-108-Polyamide-66-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|---------------------|
| Specific Gravity | 1.39 g/cc | 1.39 g/cc | ASTM D792 |
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ISO 1183 |
| Water Absorption | 0.90 % | 0.90 % | 24h/23C; ISO 62 |
| | 1.0 % | 1.0 % | @ 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|-------------------------------|
| Tensile Strength at Break | 136 MPa | 19700 psi | ISO 527 |
| Tensile Strength, Yield | 169 MPa | 24500 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 8.8 % | 8.8 % | ISO 527 |
| Elongation at Yield | 3.0 % | 3.0 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 1.82 GPa | 264 ksi | ISO 527 |
| | 8.62 GPa | 1250 ksi | ASTM D638 |
| | 8.78 GPa | 1270 ksi | ISO 178 |
| Flexural Strength | 172 MPa | 24900 psi | ASTM D790 |
| | 207 MPa | 30000 psi | ISO 178 |
| Flexural Modulus | 8.62 GPa | 1250 ksi | ASTM D790 |
| Izod Impact, Notched | 0.910 J/cm | 1.70 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 227 °C | 441 °F | Annealed; ISO 75-2/A |

| Thermal Properties | 221 °C Metric | 430 °F English | Comments |
|--------------------|--------------------|---------------------|-----------|
| | @Thickness 3.18 mm | @Thickness 0.125 in | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Melt Temperature | 271 - 293 °C | 520 - 559 °F | |
| Mold Temperature | 82.2 - 107 °C | 180 - 225 °F | |
| Drying Temperature | 82.2 °C | 180 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|---|----------|
| Additive | UV Stabilizer | |
| Appearance | Black | |
| Features | General Purpose | |
| | Good UV Resistance | |
| | Heat Stabilized | |
| Filler / Reinforcement | Glass Fiber Reinforcement, 33% 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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