

PolyOne Edgetek® NN-35MG/000 Black v1.1 Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NN-35MG000-Black-v11-Polyamide-66-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---------------------|---------------------|-----------|
| Specific Gravity | 1.52 g/cc | 1.52 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.014 - 0.022 cm/cm | 0.014 - 0.022 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|--|-------------------------------|
| Tensile Strength, Yield | 53.8 MPa | 7800 psi | ASTM D638 |
| Elongation at Break | 24 % | 24 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 3.47 GPa | 503 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Strength | 93.1 MPa | 13500 psi | ASTM D790 |
| Flexural Modulus | 2.81 GPa | 408 ksi | ASTM D790 |
| Izod Impact, Notched | 0.590 J/cm @Thickness 6.35 mm, Temperature 23.0 °C | 1.11 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|-------------------------------|---------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 72.8 °C @Thickness 3.18 mm | 163 °F @Thickness 0.125 in | Annealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature | 277 - 299 °C | 531 - 570 °F | |
| Mold Temperature | 82.2 - 104 °C | 180 - 219 °F | |
| Drying Temperature | 71.1 - 82.2 °C | 160 - 180 °F | |
| Dry Time | 2.00 hour | 2.00 hour | |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------------------------------|---------|----------|
| Descriptive Properties | Value | | Comments |
| Filler / Reinforcement | Mineral Filler, 35% Filler by Weight | | |
| Forms | Pellets | | |
| Generic Material | Nylon 66 | | |
| Generic Name | Polyamide 66 (Nylon 66) | | |
| Regional Availability | Africa & Middle East | | |
| | Asia Pacific | | |
| | Europe | | |
| | North America | | |
| | South America | | |
| RoHS Compliance | RoHS Compliant | | |
| Uses | Automotive Applications | | |

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