

Edgetek™ NN-20CF/000 BLACK

Polyamide 66

PolyOne Corporation

Message:

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.

| General Information | | | |
|------------------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Carbon Fiber,20% Filler by Weight | | |
| Features | General Purpose | | |
| Uses | Automotive Applications | | |
| | Consumer Applications | | |
| | General Purpose | | |
| | Industrial Applications | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.22 | g/cm ³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 0.10 to 0.50 | % | |
| Across Flow | 1.0 to 2.0 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 193 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 2.0 to 4.0 | % | ASTM D638 |
| Flexural Modulus | 11700 | MPa | ASTM D790 |
| Flexural Strength | 290 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 69 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 250 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+2 to 1.0E+4 | ohms | ASTM D257 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 282 to 299 | °C | |
| NOTE | | | |
| 1. | Type I, 5.1 mm/min | | |
| 2. | Type I, 5.1 mm/min | | |

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