

Edgetek™ ET6000-5011 NHFR X1 WHITE

Polyamide 6

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 | | | |
|---|---------------|-------------------|----------------|
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Density ¹ (23°C) | 1.49 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (23°C, 4.00 mm, Injection Molded) | 7000 | MPa | ISO 527-2/1 |
| Tensile Stress (Break, 23°C, 4.00 mm) | 90.0 | MPa | ISO 527-2/5 |
| Tensile Strain (Break, 23°C, 4.00 mm, Injection Molded) | > 2.0 | % | ISO 527-2/5 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C, Injection Molded) | 4.0 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength (23°C, Injection Molded) | 32 | kJ/m ² | ISO 179 |
| Electrical | Nominal Value | Unit | Test Method |
| Comparative Tracking Index | 550 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.8 mm | V-2 | | UL 94 |
| 1.6 mm | V-2 | | UL 94 |
| 3.2 mm | V-2 | | UL 94 |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.8 mm | 960 | °C | IEC 60695-2-12 |
| 1.6 mm | 960 | °C | IEC 60695-2-12 |
| 3.2 mm | 960 | °C | IEC 60695-2-12 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4.0 | hr | |
| Processing (Melt) Temp | 250 - 280 | °C | |
| NOTE | | | |

1. ±0.03 g/cm³

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