# Edgetek™ PI-30GF/000

## Polyetherimide

## Key Characteristics

| Product Description |
|---|
| 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 | | |
|---|---|---|
| Material Status | • Commercial: Active | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight | |
| Features | • General Purpose | • High Heat Resistance |
| Uses | • Automotive Applications<br>• Consumer Applications | • General Purpose<br>• Industrial Applications |
| Forms | • Pellets | |
| Processing Method | • Injection Molding | |

## Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.49 | 1.49 | ASTM D792 |
| Molding Shrinkage - Flow | 2.0E-3 to 3.0E-3 in/in | 0.20 to 0.30 % | ASTM D955 |
| Water Absorption (24 hr, 0.125 in (3.18 mm)) | 0.18 % | 0.18 % | ASTM D570 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus [2] | 1.30E+6 psi | 8960 MPa | ASTM D638 |
| Tensile Strength [2] (Yield) | 25000 psi | 172 MPa | ASTM D638 |
| Tensile Elongation [2] (Break) | 4.0 to 5.0 % | 4.0 to 5.0 % | ASTM D638 |
| Flexural Modulus | 1.30E+6 psi | 8960 MPa | ASTM D790 |
| Flexural Strength | 32000 psi | 221 MPa | ASTM D790 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact | | | ASTM D256A |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded | 1.7 ft·lb/in | 91 J/m | |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 410 °F | 210 °C | |

## Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Processing (Melt) Temp | 680 to 750 °F | 360 to 399 °C |

### Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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