



Edgetek™ PP-20GF/XC701 WHITE

Polypropylene

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 • Europe • Asia Pacific • Latin America • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| RoHS Compliance | • RoHS Compliant |
| Forms | • Pellets |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Density / Specific Gravity | 1.04 | 1.04 | ASTM D792 |
| Molding Shrinkage - Flow | 3.0E-3 to 5.0E-3 in/in | 0.30 to 0.50 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² (Break) | 7300 psi | 50.3 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Modulus | 400000 psi | 2760 MPa | ASTM D790 |
| Flexural Strength | 9500 psi | 65.5 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded | 0.80 ft-lb/in | 43 J/m | ASTM D256A |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 100 °F | 38 °C |
| Drying Time | 2.0 hr | 2.0 hr |
| Rear Temperature | 370 to 420 °F | 188 to 216 °C |
| Middle Temperature | 380 to 430 °F | 193 to 221 °C |
| Front Temperature | 390 to 440 °F | 199 to 227 °C |
| Nozzle Temperature | 400 to 450 °F | 204 to 232 °C |
| Mold Temperature | 80 to 170 °F | 27 to 77 °C |

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)