



## Edgetek™ CY4000-30GF/000 FR V0 GR703

### Polycarbonate + PBT

#### Key Characteristics

| Product Description                                                                                           |                                     |                   |                   |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------|
| Impact modified, glass fiber reinforced PC/PBT alloy with outstanding impact strength and chemical resistance |                                     |                   |                   |
| General                                                                                                       |                                     |                   |                   |
| Material Status                                                                                               | • Commercial: Active                |                   |                   |
| Regional Availability                                                                                         | • Asia Pacific                      |                   |                   |
| Filler / Reinforcement                                                                                        | • Glass Fiber, 30% Filler by Weight |                   |                   |
| Features                                                                                                      | • Chemical Resistant                | • Flame Retardant | • Impact Modified |
| Appearance                                                                                                    | • Grey                              |                   |                   |
| Forms                                                                                                         | • Pellets                           |                   |                   |
| Processing Method                                                                                             | • Injection Molding                 |                   |                   |

#### Technical Properties <sup>1</sup>

| Physical                               | Typical Value (English) | Typical Value (SI) | Test Method     |
|----------------------------------------|-------------------------|--------------------|-----------------|
| Specific Gravity                       | 1.56                    | 1.56               | ASTM D792       |
| Molding Shrinkage (0.118 in (3.00 mm)) | 0.30 to 0.60 %          | 0.30 to 0.60 %     | ISO 294-4       |
| Mechanical                             | Typical Value (English) | Typical Value (SI) | Test Method     |
| Tensile Strength <sup>2</sup>          | 17400 psi               | 120 MPa            | ASTM D638       |
| Flexural Modulus <sup>3</sup>          | 1.16E+6 psi             | 8000 MPa           | ASTM D790       |
| Flexural Strength <sup>3</sup>         | 24700 psi               | 170 MPa            | ASTM D790       |
| Impact                                 | Typical Value (English) | Typical Value (SI) | Test Method     |
| Notched Izod Impact                    |                         |                    | ASTM D256       |
| 73°F (23°C), 0.126 in (3.20 mm)        | 2.8 ft-lb/in            | 150 J/m            |                 |
| Thermal                                | Typical Value (English) | Typical Value (SI) | Test Method     |
| Deflection Temperature Under Load      |                         |                    | ASTM D648       |
| 264 psi (1.8 MPa), Unannealed          | 226 °F                  | 108 °C             |                 |
| Electrical                             | Typical Value (English) | Typical Value (SI) | Test Method     |
| Surface Resistivity                    | 1.0E+15 ohms            | 1.0E+15 ohms       | ASTM D257       |
| Flammability                           | Typical Value (English) | Typical Value (SI) | Test Method     |
| Flame Rating (0.06 in (1.6 mm))        | V-0                     | V-0                | Internal Method |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 194 to 248 °F           | 90.0 to 120 °C     |
| Drying Time            | 4.0 to 6.0 hr           | 4.0 to 6.0 hr      |
| Processing (Melt) Temp | 464 to 500 °F           | 240 to 260 °C      |
| Mold Temperature       | 176 to 212 °F           | 80.0 to 100 °C     |

#### Injection Notes

Injection Pressure: MED-HIGH  
Hold Pressure: MED-HIGH  
Screw Speed: MODERATE  
Back Pressure: LOW

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 0.20 in/min (5.0 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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