



# Edgetek™ AS-10GF/000 FR V0 BLACK

## Acrylonitrile Butadiene Styrene

### Key Characteristics

| Product Description    |                                     |
|------------------------|-------------------------------------|
| Flame retardant        |                                     |
| General                |                                     |
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Asia Pacific                      |
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight |
| Features               | • Flame Retardant                   |
| Appearance             | • Black                             |
| Processing Method      | • Injection Molding                 |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                                  | 1.39                    | 1.39               | ASTM D792   |
| Molding Shrinkage - Flow                          | 2.0E-3 to 4.0E-3 in/in  | 0.20 to 0.40 %     | ASTM D955   |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 8410 psi                | 58.0 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                     | 670000 psi              | 4620 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                    | 12300 psi               | 85.0 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)                   | 0.84 ft-lb/in           | 45 J/m             |             |
| Thermal                                           | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load                 |                         |                    | ASTM D648   |
| 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm) | 203 °F                  | 95.0 °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 (0.0630 in (1.60 mm))                | V-0                     | V-0                | UL 94       |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 185 °F           | 80.0 to 85.0 °C    |
| Drying Time        | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Rear Temperature   | 392 to 464 °F           | 200 to 240 °C      |
| Middle Temperature | 392 to 464 °F           | 200 to 240 °C      |
| Front Temperature  | 392 to 464 °F           | 200 to 240 °C      |
| Mold Temperature   | 149 to 185 °F           | 65.0 to 85.0 °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)

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