



## Edgetek™ ATC-15GF/000 BLACK UV

Acetal (POM) Copolymer

### Key Characteristics

| General                |                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------|
| Material Status        | • Commercial: Active                                                                                                |
| Regional Availability  | • Africa & Middle East • Europe                                                                                     |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight                                                                                 |
| Features               | • UV Stabilized                                                                                                     |
| Uses                   | • Automotive Applications • Electrical/Electronic Applications<br>• Consumer Applications • Industrial Applications |
| Appearance             | • Black                                                                                                             |
| Processing Method      | • Injection Molding                                                                                                 |

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

| Physical                                                     | Typical Value (English)     | Typical Value (SI)          | Test Method |
|--------------------------------------------------------------|-----------------------------|-----------------------------|-------------|
| Density <sup>2</sup>                                         | 1.49 g/cm <sup>3</sup>      | 1.49 g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)                  | 4.00 cm <sup>3</sup> /10min | 4.00 cm <sup>3</sup> /10min | ISO 1133    |
| Mechanical                                                   | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Tensile Modulus                                              | 841000 psi                  | 5800 MPa                    | ISO 527-2   |
| Tensile Strain (Break)                                       | 10 %                        | 10 %                        | ISO 527-2   |
| Flexural Modulus                                             | 653000 psi                  | 4500 MPa                    | ISO 178     |
| Flexural Stress                                              | 11600 psi                   | 80.0 MPa                    | ISO 178     |
| Impact                                                       | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Charpy Notched Impact Strength                               | 1.4 ft·lb/in <sup>2</sup>   | 3.0 kJ/m <sup>2</sup>       | ISO 179     |
| Charpy Unnotched Impact Strength                             | 24 ft·lb/in <sup>2</sup>    | 50 kJ/m <sup>2</sup>        | ISO 179     |
| Thermal                                                      | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Heat Deflection Temperature<br>66 psi (0.45 MPa), Unannealed | 302 °F                      | 150 °C                      | ISO 75-2/B  |
| Heat Deflection Temperature<br>264 psi (1.8 MPa), Unannealed | 302 °F                      | 150 °C                      | ISO 75-2/A  |
| Flammability                                                 | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Flame Rating (0.06 in (1.6 mm))                              | HB                          | HB                          | UL 94       |
| Flammability                                                 | < 4 in/min                  | < 100 mm/min                | FMVSS       |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 to 212 °F           | 80 to 100 °C       |
| Drying Time            | 4.0 hr                  | 4.0 hr             |
| Processing (Melt) Temp | 374 to 410 °F           | 190 to 210 °C      |
| Mold Temperature       | 167 to 212 °F           | 75 to 100 °C       |

#### Injection Notes

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

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup>  $\pm 0.02\text{g/cm}^3$

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