

# Edgetek<sup>TM</sup> AT-30GF/000 NC005 S-ROHS Acetal (POM) Copolymer

## **Key Characteristics**

| General                |                                   |
|------------------------|-----------------------------------|
| Material Status        | Commercial: Active                |
| Regional Availability  | Asia Pacific                      |
| Filler / Reinforcement | Glass Fiber, 30% Filler by Weight |
| Appearance             | Natural Color                     |
| Processing Method      | Injection Molding                 |

### Technical Properties 1

|   |                         | •                  |             |
|---|-------------------------|--------------------|-------------|
| Physical  | Typical Value (English) | Typical Value (SI) | Test Method |
| Density / Specific Gravity                        | 1.61                    | 1.61               | ASTM D792   |
| Molding Shrinkage - Flow                          | 4.0E-3 to 0.010 in/in   | 0.40 to 1.0 %      | ASTM D955   |
| Mechanical  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 16000 psi               | 110 MPa            | ASTM D638   |
| Flexural Modulus 3                                | 1.09E+6 psi             | 7500 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                    | 23900 psi               | 165 MPa            | ASTM D790   |
| mpact   | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact                               |                         |                    | ASTM D256   |
| 73°F (23°C), 0.126 in (3.20 mm)                   | 0.90 ft·lb/in           | 48 J/m             |             |
| Thermal 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) | 320 °F                  | 160 °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))                   | HB                      | HB                 | UL 94       |

### **Processing Information**

| Injection          | Typical Value (English) | Typical Value (SI) |  |
|--------------------|-------------------------|--------------------|--|
| Drying Temperature | 176 to 194 °F           | 80 to 90 °C        |  |
| Drying Time        | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |  |
| Rear Temperature   | 374 to 392 °F           | 190 to 200 °C      |  |
| Middle Temperature | 374 to 392 °F           | 190 to 200 °C      |  |
| Front Temperature  | 374 to 392 °F           | 190 to 200 °C      |  |
| Mold Temperature   | 167 to 185 °F           | 75 to 85 °C        |  |
| Injection Notes    |                         |                    |  |

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

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- <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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