

# Edgetek<sup>TM</sup> AT-000/000 BK022 Acetal (POM) Homopolymer

## **Key Characteristics**

| Product Description   |                    |
|-----------------------|--------------------|
| Lubricated            |                    |
| General               |                    |
| Material Status       | Commercial: Active |
| Regional Availability | Asia Pacific       |
| Features              | Lubricated         |
| Appearance            | Black              |
| Processing Method     | Injection Molding  |

## Technical Properties 1

| Physical  | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| 7   | Typical Value (English) | Typical Value (SI) | Test Method |
| Specific Gravity                                  | 1.40                    | 1.40               | ASTM D792   |
| Molding Shrinkage - Flow                          | 0.017 to 0.021 in/in    | 1.7 to 2.1 %       | ASTM D955   |
| Mechanical  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 9280 psi                | 64.0 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                     | 392000 psi              | 2700 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)                   | 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, 0.126 in (3.20 mm) | 221 °F                  | 105 °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))                | НВ                      | НВ                 | UL 94       |

## **Processing Information**

| Injection          | Typical Value (English) | Typical Value (SI) |  |
|--------------------|-------------------------|--------------------|--|
| Drying Temperature | 176 to 194 °F           | 80.0 to 90.0 °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           | 75.0 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> 2.0 in/min (50 mm/min)
- <sup>3</sup> 0.051 in/min (1.3 mm/min)

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