



## Edgetek™ CY1000 BL187

### Polycarbonate + ABS

#### Key Characteristics

| Product Description   |                      |
|-----------------------|----------------------|
| Impact modified       |                      |
| General               |                      |
| Material Status       | • Commercial: Active |
| Regional Availability | • Asia Pacific       |
| Additive              | • Impact Modifier    |
| Features              | • Impact Modified    |
| Appearance            | • Grey               |
| Processing Method     | • Injection Molding  |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                                  | 1.13                    | 1.13               | ASTM D792   |
| Molding Shrinkage - Flow                          | 4.0E-3 to 6.0E-3 in/in  | 0.40 to 0.60 %     | ASTM D955   |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 7250 psi                | 50.0 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                     | 305000 psi              | 2100 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                    | 11600 psi               | 80.0 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)                   | 10 ft-lb/in             | 550 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) | 216 °F                  | 102 °C             |             |
| Electrical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Surface Resistivity                               | 1.0E+14 ohms            | 1.0E+14 ohms       | ASTM D257   |

#### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 212 °F           | 80.0 to 100 °C     |
| Drying Time        | 3.0 to 4.0 hr           | 3.0 to 4.0 hr      |
| Rear Temperature   | 446 to 482 °F           | 230 to 250 °C      |
| Middle Temperature | 446 to 482 °F           | 230 to 250 °C      |
| Front Temperature  | 446 to 482 °F           | 230 to 250 °C      |
| Mold Temperature   | 158 to 194 °F           | 70.0 to 90.0 °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)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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