



# Edgetek™ PC-10CF/10T BLK013

## Polycarbonate

### Key Characteristics

| Product Description    |   |
|------------------------|---|
| 3242013                |   |
| General                |   |
| Material Status        | • Commercial: Active  |
| Regional Availability  | • Asia Pacific  |
| Filler / Reinforcement | • Carbon Fiber, 10% Filler by Weight  |
| Additive               | • PTFE Lubricant: 10%   |
| Features               | • Halogen Free                      • Self Lubricating  |
| Uses                   | • Household Goods                      • Printer Parts                      • Transmission Applications |
| RoHS Compliance        | • RoHS Compliant  |
| Appearance             | • Black   |
| Forms                  | • Pellets   |
| Processing Method      | • Injection Molding   |

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

| Physical                          | Typical Value (English) | Typical Value (SI)    | Test Method     |
|-----------------------------------|-------------------------|-----------------------|-----------------|
| Density / Specific Gravity        | 1.29                    | 1.29                  | ASTM D792       |
| Molding Shrinkage - Flow          | 1.0E-3 to 3.0E-3 in/in  | 0.10 to 0.30 %        | ASTM D955       |
| Mechanical                        | Typical Value (English) | Typical Value (SI)    | Test Method     |
| Tensile Strength <sup>2</sup>     |                         |                       | ASTM D638       |
| 73°F (23°C), 0.126 in (3.20 mm)   | 15200 psi               | 105 MPa               |                 |
| Flexural Modulus                  | 943000 psi              | 6500 MPa              | ASTM D790       |
| Flexural Strength                 | 25400 psi               | 175 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)   | 1.6 ft-lb/in            | 85 J/m                |                 |
| Thermal                           | Typical Value (English) | Typical Value (SI)    | Test Method     |
| Deflection Temperature Under Load |                         |                       | ASTM D648       |
| 264 psi (1.8 MPa), Unannealed     | 284 °F                  | 140 °C                |                 |
| Electrical                        | Typical Value (English) | Typical Value (SI)    | Test Method     |
| Surface Resistivity               | 1.0E+3 to 1.0E+6 ohms   | 1.0E+3 to 1.0E+6 ohms | ASTM D257       |
| Flammability                      | Typical Value (English) | Typical Value (SI)    | Test Method     |
| Flame Rating (0.06 in (1.6 mm))   | HB                      | HB                    | Internal Method |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 248 to 266 °F           | 120 to 130 °C      |
| Drying Time            | 3.0 to 4.0 hr           | 3.0 to 4.0 hr      |
| Processing (Melt) Temp | 554 to 590 °F           | 290 to 310 °C      |
| Mold Temperature       | 194 to 230 °F           | 90 to 110 °C       |