

# Stat-Tech™ PC-15CF/000 FC MR BLK

Polycarbonate  
PolyOne Corporation

Message:  
Carbon Fiber Reinforced Polycarbonate Compound with Good Mold Releasing Property

| General Information                                                                        |                                  |                   |             |
|--------------------------------------------------------------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                                                                              | E76261-102283731                 |                   |             |
| Filler / Reinforcement                                                                     | Carbon fiber reinforced material |                   |             |
| Appearance                                                                                 | Black                            |                   |             |
| Processing Method                                                                          | Injection molding                |                   |             |
| Physical                                                                                   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                                                           | 1.25                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                                                                          | 0.10 - 0.30                      | %                 | ASTM D955   |
| Mechanical                                                                                 | Nominal Value                    | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                                                              | 120                              | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                                                    | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup>                                                              | 8000                             | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup>                                                             | 180                              | MPa               | ASTM D790   |
| Impact                                                                                     | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 6.40 mm, Injection Molded)                                      | 70                               | J/m               | ASTM D256A  |
| Thermal                                                                                    | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)                                    | 140                              | °C                | ASTM D648   |
| Electrical                                                                                 | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                                                                        | 100 - 100000                     | ohms/sq           | ASTM D257   |
| Flammability                                                                               | Nominal Value                    | Unit              | Test Method |
| Flame Rating                                                                               |                                  |                   | UL 94       |
| 1.5 mm                                                                                     | HB                               |                   | UL 94       |
| 3.0 mm                                                                                     | HB                               |                   | UL 94       |
| Injection                                                                                  | Nominal Value                    | Unit              |             |
| Drying Temperature                                                                         | 110 - 130                        | °C                |             |
| Drying Time                                                                                | 4.0 - 6.0                        | hr                |             |
| Processing (Melt) Temp                                                                     | 280 - 310                        | °C                |             |
| Mold Temperature                                                                           | 80 - 120                         | °C                |             |
| Injection instructions                                                                     |                                  |                   |             |
| Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW |                                  |                   |             |
| NOTE                                                                                       |                                  |                   |             |
| 1.                                                                                         | 5.0 mm/min                       |                   |             |
| 2.                                                                                         | 5.0 mm/min                       |                   |             |

|    |            |
|----|------------|
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |

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