



# LubriOne™ SF-30CF/15T BLACK

## Polyphenylene Sulfide

### Key Characteristics

| Product Description    |                                      |
|------------------------|--------------------------------------|
| PTFE lubricated        |                                      |
| General                |                                      |
| Material Status        | • Commercial: Active                 |
| Regional Availability  | • Asia Pacific                       |
| Filler / Reinforcement | • Carbon Fiber, 30% Filler by Weight |
| Additive               | • PTFE Lubricant                     |
| Features               | • Lubricated                         |
| Appearance             | • Black                              |
| Processing Method      | • Injection Molding                  |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method     |
|---------------------------------------------------|-------------------------|--------------------|-----------------|
| Specific Gravity                                  | 1.52                    | 1.52               | ASTM D792       |
| Molding Shrinkage - Flow                          | 1.0E-3 to 1.5E-3 in/in  | 0.10 to 0.15 %     | ASTM D955       |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method     |
| Tensile Modulus <sup>2</sup>                      | 1.96E+6 psi             | 13500 MPa          | ASTM D638       |
| Tensile Strength <sup>2</sup>                     | 20000 psi               | 138 MPa            | ASTM D638       |
| Tensile Elongation <sup>2</sup> (Break)           | 2.0 %                   | 2.0 %              | ASTM D638       |
| Flexural Modulus <sup>3</sup>                     | 2.18E+6 psi             | 15000 MPa          | ASTM D790       |
| Flexural Strength <sup>3</sup>                    | 30500 psi               | 210 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)                   | 1.3 ft·lb/in            | 70 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) | 500 °F                  | 260 °C             |                 |
| Electrical                                        | Typical Value (English) | Typical Value (SI) | Test Method     |
| Surface Resistivity                               | 50 to 1.0E+3 ohms       | 50 to 1.0E+3 ohms  | ASTM D257       |
| Flammability                                      | Typical Value (English) | Typical Value (SI) | Test Method     |
| Flame Rating (0.0630 in (1.60 mm))                | V-0                     | V-0                | Internal Method |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 284 to 302 °F           | 140 to 150 °C      |
| Drying Time        | 4.0 to 6.0 hr           | 4.0 to 6.0 hr      |
| Rear Temperature   | 608 to 626 °F           | 320 to 330 °C      |
| Middle Temperature | 608 to 626 °F           | 320 to 330 °C      |
| Front Temperature  | 608 to 626 °F           | 320 to 330 °C      |
| Mold Temperature   | 284 to 320 °F           | 140 to 160 °C      |

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**Injection Notes**

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

**Notes**

<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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