# LubriOne™ SF-30CF/15T

Polyphenylene Sulfide

PolyOne Corporation

## Message:

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

| General Information | | | |
|---|---|---|---|
| UL YellowCard | E76261-101373936 | E76261-101373937 | |
| Features | Electrically Conductive<br>Good Chemical Resistance<br>Good Wear Resistance<br>High Heat Resistance<br>High Rigidity<br>Linear Polymer Structure<br>Lubricated<br>Semi Crystalline | | |
| Uses | Appliance Components<br>Automotive Applications<br>Bearings<br>Business Equipment<br>Consumer Applications<br>Conveyor Parts<br>Gears<br>Industrial Applications<br>Printer Parts<br>Pulleys<br>Rollers | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.52 | g/cm³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 0.020 to 0.040 | % | |
| Across Flow | 1.0 to 3.0 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus [1] | 26800 | MPa | ASTM D638 |

| | | | |
|---|---|---|---|
| Tensile Strength [2] | | | ASTM D638 |
| Yield | 159 | MPa | |
| Break | 159 | MPa | |
| Tensile Elongation [3] (Break) | 1.0 | % | ASTM D638 |
| Flexural Modulus [4] | 20700 | MPa | ASTM D790 |
| Flexural Strength [5] | 248 | MPa | ASTM D790 |
| Coefficient of Friction | | | ASTM D1894 |
| vs. Steel - Dynamic | 0.16 | | |
| vs. Steel - Static | 0.19 | | |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C, 6.35 mm, Injection Molded) | 59 | J/m | ASTM D256A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 6.35 mm | 278 | °C | |
| 1.8 MPa, Unannealed, 6.35 mm | 227 | °C | |
| CLTE - Flow | 1.1E-4 | cm/cm/°C | ASTM D696 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+3 to 1.0E+5 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+3 to 1.0E+5 | ohms·cm | ASTM D257 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 121 | °C | |
| Drying Time | 2.0 | hr | |
| **NOTE** | | | |
| 1. | Type I, 5.1 mm/min | | |
| 2. | 5.1 mm/min | | |
| 3. | Type I, 5.1 mm/min | | |
| 4. | 1.3 mm/min | | |
| 5. | 1.3 mm/min | | |



Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT