LubriOne™ SF-30GF/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.

| Petutros Lubricated Appliance Components Appliance Components Appliance Components Appliance Components Appliance Applianc | General Information | | | |
|---|---|----------------------|---------|-------------|
| RoHS Compliance RoHS Compliant | Features | Lubricated | | |
| Printer Parts RoHS Compilant Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 1.70 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength² (Break) 138 MPa ASTM D638 Tensile Elongation³ (Break) 4.0 % ASTM D638 Tensile Elongation³ (Break) 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notiched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D556A Thermal Nominal Value Unit Test Method Deflexical 200 °C Test Method Surface Resistiv | Uses | Appliance Components | | |
| RoHS Compliant Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 1.70 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Elexural Modulus 159 MPa ASTM D790 Elexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 10 J/m ASTM D56A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test Method | | Conveyor Parts | | |
| Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 1.70 g/cm² ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, lejection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test | | Printer Parts | | |
| Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 1.70 g/cm² ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, lejection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test | | | | |
| Physical Nominal Value Unit Test Method Specific Gravity 1.70 g/cm² ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Flexural Modulus ¹ 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C * 0.45 MPa, Unannealed 260 °C * Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms-cm | RoHS Compliance | RoHS Compliant | | |
| Specific Gravity 1.70 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 *C 0.45 MPa, Unannealed 270 *C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms · cm ASTM D257 Flammability Nominal Value Unit Test Method | Forms | Pellets | | |
| Molding Shrinkage - Flow 0.20 to 0.25 % ASTM D955 Mechanical Nominal Value Unit Test Method Tensile Modulus 1 12100 MPa ASTM D638 Tensile Strength 2 (Break) 138 MPa ASTM D638 Tensile Elongation 3 (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 *C *** 1.8 MPa, Unannealed 270 *C *** 1.8 MPa, Unannealed 260 **C *** Surface Resistivity 1.0E+14 ohms · cm ASTM D257 Volume Resistivity Nominal Value Unit Test Method Flammability Nominal Value Unit <td>Physical</td> <td>Nominal Value</td> <td>Unit</td> <td>Test Method</td> | Physical | Nominal Value | Unit | Test Method |
| Mechanical Nominal Value Unit Test Method Tensile Modulus 1 12100 MPa ASTM D638 Tensile Strength 2 (Break) 138 MPa ASTM D638 Tensile Elongation 3 (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Impact (Jay C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method 0.45 MPa, Unannealed 270 "C - 1.8 MPa, Unannealed 260 "C - Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms -cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit UL 94 Injection Nominal Value Unit Unit | Specific Gravity | 1.70 | g/cm³ | ASTM D792 |
| Tensile Modulus ¹ 12100 MPa ASTM D638 Tensile Strength ² (Break) 138 MPa ASTM D638 Tensile Elongation ³ (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Iffexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C *** 1.8 MPa, Unannealed 260 °C *** Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms cm ASTM D257 Volume Resistivity 1.0E+14 ohms cm ASTM D257 Flammability Nominal Value Unit Test Method Injection Nominal Value Unit Test Method Injection Nominal Value Unit <td>Molding Shrinkage - Flow</td> <td>0.20 to 0.25</td> <td>%</td> <td>ASTM D955</td> | Molding Shrinkage - Flow | 0.20 to 0.25 | % | ASTM D955 |
| Tensile Strength 2 (Break) 138 MPa ASTM D638 Tensile Elongation 3 (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Nothed Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C ** 1.8 MPa, Unannealed 260 °C ** Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms · cm ASTM D257 Volume Resistivity 1.0E+14 ohms · cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Unit Drying Temperature 140 to 150 °C Drying Time 4.0 hr | Mechanical | Nominal Value | Unit | Test Method |
| Tensile Elongation 3 (Break) 4.0 % ASTM D638 Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit Unit Drying Temperature 140 to 150 °C Drying Time 4.0 hr | Tensile Modulus ¹ | 12100 | MPa | ASTM D638 |
| Flexural Modulus 10300 MPa ASTM D790 Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 270 °C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms · cm ASTM D257 Volume Resistivity 1.0E+14 ohms · cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Unit Unit Drying Temperature 140 to 150 °C Unit Unit | Tensile Strength ² (Break) | 138 | MPa | ASTM D638 |
| Flexural Strength 159 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms ASTM D257 Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Momerature Under Load Ohms·cm ASTM D257 Injection Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit | Tensile Elongation ³ (Break) | 4.0 | % | ASTM D638 |
| Impact Impact Nominal Value Unit Test Method Notched Izod Impact (23°C, 6.35 mm, Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms ASTM D257 Volume Resistivity 1.0E+14 ohms ASTM D257 Volume Resistivity Nominal Value Unit Test Method Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit Drying Temperature 140 to 150 °C Drying Temperature 4.0 thr | Flexural Modulus | 10300 | MPa | ASTM D790 |
| Notiched Izod Impact (23°C, 6.35 mm, Injection Molded) Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 0.45 MPa, Unannealed 270 1.8 MPa, Unannealed 260 Electrical Nominal Value Unit Test Method Surface Resistivity Nominal Value Unit Test Method Surface Resistivity 1.0E+14 Ohms ASTM D257 Volume Resistivity 1.0E+14 Ohms ASTM D257 Volume Resistivity Nominal Value Unit Test Method Flammability Nominal Value Unit Test Method Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit Drying Temperature Under Load V-0 Unit Drying Temperature Under Load V-0 Unit CC Drying Time 4.00 Nominal Value Nominal Value Unit | Flexural Strength | 159 | MPa | ASTM D790 |
| Injection Molded) 110 J/m ASTM D256A Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 270 °C 1.8 MPa, Unannealed 260 °C Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms · cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Test Method Injection Nominal Value Unit UL 94 Injection Nominal Value Unit Unit V-0 Drying Temperature 140 to 150 °C C Drying Time 4.0 hr C | Impact | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load O.45 MPa, Unannealed O.45 Method Ohms · cn Ohms · | | 110 | J/m | ASTM D256A |
| 0.45 MPa, Unannealed270°C1.8 MPa, Unannealed260°CElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+14ohms cmASTM D257Volume Resistivity1.0E+14ohms cmASTM D257FlammabilityNominal ValueUnitTest MethodFlame RatingV-0UnitUnitInjectionNominal ValueUnitDrying Temperature140 to 150°CDrying Time4.0hr | Thermal | Nominal Value | Unit | Test Method |
| 1.8 MPa, Unannealed260°CElectricalNominal ValueUnitTest MethodSurface Resistivity1.0E+14ohmsASTM D257Volume Resistivity1.0E+14ohms·cmASTM D257FlammabilityNominal ValueUnitTest MethodFlame RatingV-0UnitUnitInjectionNominal ValueUnitDrying Temperature140 to 150°CDrying Time4.0hr | Deflection Temperature Under Load | | | ASTM D648 |
| Electrical Nominal Value Unit Test Method Surface Resistivity 1.0E+14 ohms cm ASTM D257 Volume Resistivity 1.0E+14 ohms cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Unit Unit Orying Temperature 140 to 150 °C Drying Time 4.0 hr | 0.45 MPa, Unannealed | 270 | °C | |
| Surface Resistivity 1.0E+14 ohms ohms ASTM D257 Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-0 Unit Injection Nominal Value Unit Drying Temperature 140 to 150 °C Drying Time 4.0 hr | 1.8 MPa, Unannealed | 260 | °C | |
| Volume Resistivity1.0E+14ohms·cmASTM D257FlammabilityNominal ValueUnitTest MethodFlame RatingV-0UL 94InjectionNominal ValueUnitDrying Temperature140 to 150°CDrying Time4.0hr | Electrical | Nominal Value | Unit | Test Method |
| Flammability Nominal Value Unit Test Method Flame Rating V-0 UL 94 Injection Nominal Value Unit Drying Temperature 140 to 150 °C Drying Time 4.0 hr | Surface Resistivity | 1.0E+14 | ohms | ASTM D257 |
| Flame Rating V-0 UL 94 Injection Nominal Value Unit Drying Temperature 140 to 150 °C Drying Time 4.0 hr | Volume Resistivity | 1.0E+14 | ohms·cm | ASTM D257 |
| InjectionNominal ValueUnitDrying Temperature140 to 150°CDrying Time4.0hr | Flammability | Nominal Value | Unit | Test Method |
| Drying Temperature 140 to 150 °C Drying Time 4.0 hr | Flame Rating | V-0 | | UL 94 |
| Drying Time 4.0 hr | Injection | Nominal Value | Unit | |
| | Drying Temperature | 140 to 150 | °C | |
| Mold Temperature 130 to 150 °C | Drying Time | 4.0 | hr | |
| | Mold Temperature | 130 to 150 | °C | |

| NOTE | | |
|------|--------------------|--|
| 1. | Type I, 5.1 mm/min | |
| 2. | Type I, 5.1 mm/min | |
| 3. | Type I, 5.1 mm/min | |

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