

LubriOne™ AT-000/05T 2S

Acetal (POM) Copolymer

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 | E76261-101440635 | | |
| Features | Copolymer | | |
| | Lubricated | | |
| Uses | Appliance Components | | |
| | Conveyor Parts | | |
| | Printer Parts | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.44 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 2.0 to 2.5 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ¹ | 586 | MPa | ASTM D638 |
| Tensile Strength ² (Yield) | 48.3 | MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 25 to 30 | % | ASTM D638 |
| Flexural Modulus | 1900 | MPa | ASTM D790 |
| Flexural Strength | 75.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 69 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 6.35 mm | 153 | °C | |
| 1.8 MPa, Unannealed, 6.35 mm | 88.9 | °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 | HB | | UL 94 |
| Injection | Nominal Value | Unit | |

| | | |
|--------------------|--------------|----|
| Drying Temperature | 80.0 to 85.0 | °C |
| Drying Time | 2.0 | hr |
| Mold Temperature | 75.0 to 85.0 | °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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