

# LubriOne™ PC-000/10T

Polycarbonate  
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                           | E76261-101413966        |                   |             |
| Features                                | Good Wear Resistance    |                   |             |
|   | Low Friction            |                   |             |
|   | Lubricated              |                   |             |
| Uses                                    | Appliance Components    |                   |             |
|   | Automotive Applications |                   |             |
|   | Bearings                |                   |             |
|   | Business Equipment      |                   |             |
|   | Consumer Applications   |                   |             |
|   | Conveyor Parts          |                   |             |
|   | Gears                   |                   |             |
|   | Industrial Applications |                   |             |
|   | Printer Parts           |                   |             |
|   | Pulleys                 |                   |             |
|   | Rollers                 |                   |             |
| Forms                                   | Pellets                 |                   |             |
| Processing Method                       | Injection Molding       |                   |             |
| Physical                                | Nominal Value           | Unit              | Test Method |
| Specific Gravity                        | 1.26                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                | 0.50 to 0.70            | %                 | ASTM D955   |
| Water Absorption (24 hr, 3.18 mm)       | 0.15                    | %                 | ASTM D570   |
| Mechanical                              | Nominal Value           | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>            | 1590                    | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)   | 60.7                    | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break) | 10 to 12                | %                 | ASTM D638   |
| Flexural Modulus                        | 1590                    | MPa               | ASTM D790   |
| Flexural Strength                       | 64.8                    | MPa               | ASTM D790   |
| Coefficient of Friction                 |                         |                   | ASTM D1894  |
| vs. Steel - Dynamic                     | 0.40                    |                   |             |
| vs. Steel - Static                      | 0.25                    |                   |             |

| Impact  | Nominal Value      | Unit | Test Method |
|---|--------------------|------|-------------|
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 130                | J/m  | ASTM D256A  |
| Thermal   | Nominal Value      | Unit | Test Method |
| Deflection Temperature Under Load                     |                    |      | ASTM D648   |
| 0.45 MPa, Unannealed, 6.35 mm                         | 127                | °C   |             |
| 1.8 MPa, Unannealed, 6.35 mm                          | 121                | °C   |             |
| Injection   | Nominal Value      | Unit |             |
| Processing (Melt) Temp                                | 288 to 316         | °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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### 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

