

PolyOne LubriOne™ PC-000/05T-2S Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-LubriOne-PC-00005T-2S-Polycarbonate-PC.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|-------------------------------|--------------------------------|---------------------|
| Specific Gravity | 1.23 g/cc | 1.23 g/cc | ASTM D792 |
| Water Absorption | 0.15 % @Thickness 0.508 mm | 0.15 % @Thickness 0.0200 in | @ 24 hrs; ASTM D570 |
| Water Absorption at Saturation | 0.35 % @Thickness 0.508 mm | 0.35 % @Thickness 0.0200 in | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|--|-------------------------------|
| Tensile Strength at Break | 60.7 MPa | 8800 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 7.0 % | 7.0 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Modulus | 2.28 GPa | 331 ksi | ASTM D790 |
| Izod Impact, Notched | 2.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 3.93 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|---------------------|
| CTE, linear, Parallel to Flow | 68.0 μm/m-°C | 37.8 μin/in-°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 127 °C @Thickness 3.18 mm | 261 °F @Thickness 0.125 in | Annealed; ASTM D648 |
| Flammability, UL94 | HB | HB | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+17 ohm-cm | 1.00e+17 ohm-cm | ASTM D257 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 288 - 316 °C | 550 - 601 °F | |
| Mold Temperature | 54.4 - 121 °C | 130 - 250 °F | |
| Drying Temperature | 121 °C | 250 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|----------------------|----------|
| Features | Lubricated | |
| Forms | Pellets | |
| Generic Material | PC | |
| Generic Name | Polycarbonate (PC) | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| RoHS Compliance | RoHS Compliant | |
| Uses | Appliance Components | |
| | Conveyor Parts | |
| | Printer Parts | |

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