

**PolyOne Lubri-Tech™ SY-000/05T High Impact Styrene - 5% PTFE  
(discontinued \*\*)**

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, PTFE Filled

**Material Notes:**

Data provided by PolyOne.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Lubri-Tech-SY-00005T-High-Impact-Styrene-5-PTFE-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Lubri-Tech-SY-00005T-High-Impact-Styrene-5-PTFE-nbspdiscontinued-.php)

| Physical Properties   | Metric                                      | English                                      | Comments          |
|-----------------------|---|--|-------------------|
| Density               | 1.07 g/cc                                   | 0.0387 lb/in <sup>3</sup>                    | ASTM D792         |
| Water Absorption      | 0.30 %                                      | 0.30 %                                       | 24 hrs. ASTM D570 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm<br>@Thickness 3.17 mm | 0.0050 - 0.0070 in/in<br>@Thickness 0.125 in | ASTM D955         |

| Mechanical Properties      | Metric                                  | English                                     | Comments  |
|----------------------------|---|---|-----------|
| Tensile Strength, Ultimate | 31.0 MPa                                | 4500 psi                                    | ASTM D638 |
| Elongation at Break        | 4.0 - 8.0 %                             | 4.0 - 8.0 %                                 | ASTM D638 |
| Tensile Modulus            | 2.60 GPa                                | 377 ksi                                     | ASTM D638 |
| Flexural Yield Strength    | 31.0 MPa                                | 4500 psi                                    | ASTM D790 |
| Flexural Modulus           | 2.59 GPa                                | 376 ksi                                     | ASTM D790 |
| Izod Impact, Notched       | 0.800 - 1.07 J/cm<br>@Thickness 6.35 mm | 1.50 - 2.00 ft-lb/in<br>@Thickness 0.250 in | ASTM D256 |

| Processing Properties | Metric         | English      | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature      | 210 - 232 °C   | 410 - 450 °F | Stock    |
| Mold Temperature      | 49.0 - 71.0 °C | 120 - 160 °F |          |
| Drying Temperature    | 49.0 - 66.0 °C | 120 - 151 °F |          |

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