

**Plaslube® PA6/6 M/TL7 HS L**

 Techmer Polymer Modifiers - *Polyamide 66*
**General Information**
**General**

|                   |  |
|-------------------|--|
| Material Status   | <ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>   |
| Availability      | <ul style="list-style-type: none"> <li>North America</li> </ul>  |
| Additive          | <ul style="list-style-type: none"> <li>Heat Stabilizer</li> <li>Lubricant</li> <li>Molybdenum Disulfide Lubricant</li> <li>PTFE Lubricant</li> </ul> |
| Features          | <ul style="list-style-type: none"> <li>Heat Stabilized</li> <li>Lubricated</li> </ul>  |
| Appearance        | <ul style="list-style-type: none"> <li>Colors Available</li> </ul>   |
| Forms             | <ul style="list-style-type: none"> <li>Pellets</li> </ul>  |
| Processing Method | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>  |

**Properties <sup>1</sup>**

| Physical  | Nominal Value | Unit  | Test Method |
|---|---------------|---|-------------|
| Density / Specific Gravity                              | 1.18          |   | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 0.015         | in/in   | ASTM D955   |
| Water Absorption (24 hr)                                | 1.0           | %   | ASTM D570   |
| Mechanical  | Nominal Value | Unit  | Test Method |
| Tensile Strength (Break)                                | 10600         | psi   | ASTM D638   |
| Tensile Elongation (Break)                              | 20            | %   | ASTM D638   |
| Flexural Modulus  | 400000        | psi   | ASTM D790   |
| Flexural Strength                                       | 14700         | psi   | ASTM D790   |
| Coefficient of Friction                                 |               |   | ASTM D1894  |
| vs. Steel - Dynamic                                     | 0.21          |   |             |
| vs. Steel - Static                                      | 0.14          |   |             |
| Wear Factor   | 85            | 10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr | ASTM D3702  |
| Impact  | Nominal Value | Unit  | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 0.80          | ft·lb/in  | ASTM D256   |
| Hardness  | Nominal Value | Unit  | Test Method |
| Rockwell Hardness (R-Scale)                             | 117           |   | ASTM D785   |
| Thermal   | Nominal Value | Unit  | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 200           | °F  | ASTM D648   |
| CLTE - Flow   | 4.4E-5        | in/in/°F  | ASTM D696   |
| Electrical  | Nominal Value | Unit  | Test Method |
| Volume Resistivity                                      | 1.0E+14       | ohms·cm   | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 550           | V/mil   | ASTM D149   |

**Processing Information**

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 180           | °F   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Suggested Max Moisture | 0.020         | %    |
| Rear Temperature       | 480 to 520    | °F   |
| Middle Temperature     | 520 to 540    | °F   |
| Front Temperature      | 530 to 560    | °F   |
| Nozzle Temperature     | 540 to 570    | °F   |
| Processing (Melt) Temp | 510 to 550    | °F   |
| Mold Temperature       | 100 to 200    | °F   |
| Back Pressure          | 0.00 to 100   | psi  |

