

**Plaslube® PA6 TX10**

Techmer Polymer Modifiers - Polyamide 6

**General Information**

| General           |                               |
|-------------------|-------------------------------|
| Material Status   | • Commercial: Active          |
| Availability      | • North America               |
| Additive          | • PTFE Lubricant: 10%         |
| Features          | • Lubricated • Wear Resistant |
| Appearance        | • Colors Available            |
| Forms             | • Pellets                     |
| Processing Method | • Injection Molding           |

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

| Physical  | Nominal Value | Unit   | Test Method |
|---|---------------|--|-------------|
| Density / Specific Gravity                              | 1.18          |  | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 0.014         | in/in  | ASTM D955   |
| Water Absorption (24 hr)                                | 1.1           | %  | ASTM D570   |
| Mechanical  | Nominal Value | Unit   | Test Method |
| Tensile Strength (Break)                                | 10500         | psi  | ASTM D638   |
| Tensile Elongation (Yield)                              | 22            | %  | ASTM D638   |
| Flexural Modulus  | 380000        | psi  | ASTM D790   |
| Flexural Strength                                       | 14200         | psi  | ASTM D790   |
| Coefficient of Friction                                 |               |  | ASTM D1894  |
| vs. Steel - Dynamic                                     | 0.20          |  |             |
| vs. Steel - Static                                      | 0.14          |  |             |
| Wear Factor   | 50            | 10 <sup>-4</sup> -10 in <sup>3</sup> ·min/ft·lb·hr | ASTM D3702  |
| Impact  | Nominal Value | Unit   | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 1.0           | ft·lb/in   | ASTM D256   |
| Hardness  | Nominal Value | Unit   | Test Method |
| Rockwell Hardness (R-Scale)                             | 100           |  | ASTM D785   |
| Thermal   | Nominal Value | Unit   | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 340           | °F   | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 140           | °F   | ASTM D648   |
| CLTE - Flow   | 5.2E-5        | in/in/°F   | ASTM D696   |
| Electrical  | Nominal Value | Unit   | Test Method |
| Volume Resistivity                                      | 1.0E+15       | ohms·cm  | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 400           | V/mil  | ASTM D149   |

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
