

**Plaslube® POM HO GF20 TL20**

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

**General Information**

| General                |                            |
|------------------------|----------------------------|
| Material Status        | • Commercial: Active       |
| Availability           | • North America            |
| Filler / Reinforcement | • Glass Fiber              |
| Additive               | • PTFE Lubricant           |
| Features               | • Homopolymer • Lubricated |
| Appearance             | • Colors Available         |
| Processing Method      | • Injection Molding        |

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

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.68          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 4.0E-3        | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.22          | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                                | 8500          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 5.0           | %        | ASTM D638   |
| Flexural Modulus                                        | 685000        | psi      | ASTM D790   |
| Flexural Strength                                       | 10700         | psi      | ASTM D790   |
| 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)                             | 82            |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 336           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 297           | °F       | ASTM D648   |
| Melting Temperature                                     | 351           | °F       |             |
| CLTE - Flow                                             | 2.6E-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))             | 410           | V/mil    | ASTM D149   |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating (0.06 in)                                  | HB            |          | UL 94       |

**Processing Information**

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 200           | °F   |
| Drying Time            | 2.0 to 3.0    | hr   |
| Rear Temperature       | 380 to 425    | °F   |
| Middle Temperature     | 380 to 425    | °F   |
| Front Temperature      | 380 to 425    | °F   |
| Processing (Melt) Temp | 380 to 440    | °F   |
| Mold Temperature       | 180 to 220    | °F   |
| Back Pressure          | 50.0 to 100   | psi  |
| Screw Speed            | 30 to 60      | rpm  |

