

# Plaslube® POM HO TL1

Acetal (POM) Homopolymer  
Techmer Engineered Solutions

Message:

Plaslube®POM HO TL1 is a polyoxymethylene (POM) homopolymer product. It can be processed by injection molding and is available in North America. Features include:  
Homopolymer  
Wear-resistant  
Lubrication

| General Information                 |                      |                                         |             |
|-------------------------------------|----------------------|-----------------------------------------|-------------|
| Additive                            | PTFE lubricant (1%)  |                                         |             |
| Features                            | Homopolymer          |                                         |             |
|                                     | Good wear resistance |                                         |             |
|                                     | Lubrication          |                                         |             |
| Appearance                          | Available colors     |                                         |             |
|                                     | Available colors     |                                         |             |
| Forms                               | Particle             |                                         |             |
| Processing Method                   | Injection molding    |                                         |             |
| Physical                            | Nominal Value        | Unit                                    | Test Method |
| Specific Gravity                    | 1.42                 | g/cm <sup>3</sup>                       | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 2.0                  | %                                       | ASTM D955   |
| Water Absorption (24 hr)            | 0.17                 | %                                       | ASTM D570   |
| Hardness                            | Nominal Value        | Unit                                    | Test Method |
| Rockwell Hardness (M-Scale)         | 92                   |                                         | ASTM D785   |
| Mechanical                          | Nominal Value        | Unit                                    | Test Method |
| Tensile Strength (Break)            | 62.1                 | MPa                                     | ASTM D638   |
| Tensile Elongation (Yield)          | 18                   | %                                       | ASTM D638   |
| Flexural Modulus                    | 2960                 | MPa                                     | ASTM D790   |
| Flexural Strength                   | 89.6                 | MPa                                     | ASTM D790   |
| Coefficient of Friction             |                      |                                         | ASTM D1894  |
| With steel-dynamic                  | 0.22                 |                                         | ASTM D1894  |
| With steel-static                   | 0.19                 |                                         | ASTM D1894  |
| Wear Factor                         | 100                  | 10 <sup>-8</sup> mm <sup>3</sup> /N · m | ASTM D3702  |
| Impact                              | Nominal Value        | Unit                                    | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 59                   | J/m                                     | ASTM D256   |
| Thermal                             | Nominal Value        | Unit                                    | Test Method |
| Deflection Temperature Under Load   |                      |                                         | ASTM D648   |
| 0.45 MPa, not annealed              | 166                  | °C                                      | ASTM D648   |

|                                  |                       |          |             |
|----------------------------------|-----------------------|----------|-------------|
| 1.8 MPa, not annealed            | 100                   | °C       | ASTM D648   |
| CLTE - Flow                      | 9.0E-5                | cm/cm/°C | ASTM D696   |
| Electrical                       | Nominal Value         | Unit     | Test Method |
| Volume Resistivity               | 1.0E+15               | ohms·cm  | ASTM D257   |
| Dielectric Strength <sup>1</sup> | 18                    | kV/mm    | ASTM D149   |
| Injection                        | Nominal Value         | Unit     |             |
| Drying Temperature               | 71                    | °C       |             |
| Drying Time                      | 2.0                   | hr       |             |
| Suggested Max Moisture           | 0.20                  | %        |             |
| Rear Temperature                 | 177 - 193             | °C       |             |
| Middle Temperature               | 188 - 210             | °C       |             |
| Front Temperature                | 182 - 199             | °C       |             |
| Nozzle Temperature               | 177 - 204             | °C       |             |
| Processing (Melt) Temp           | 193 - 216             | °C       |             |
| Mold Temperature                 | 82 - 121              | °C       |             |
| Injection Rate                   | Moderate              |          |             |
| Back Pressure                    | 0.345 - 0.689         | MPa      |             |
| Screw Speed                      | 70 - 80               | rpm      |             |
| NOTE                             |                       |          |             |
| 1.                               | Method A (short time) |          |             |

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