

# Plaslube® PA6 TSX15

Polyamide 6  
Techmer Engineered Solutions

Message:

Plaslube® PA6 TSX15 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.  
Characteristics include:  
Lubricated  
Wear Resistant

| General Information                 |                                 |   |             |
|-------------------------------------|---------------------------------|---|-------------|
| Additive                            | PTFE + Silicone Lubricant (15%) |   |             |
| Features                            | Good Wear Resistance            |   |             |
|                                     | Lubricated                      |   |             |
| Appearance                          | Colors Available                |   |             |
| Forms                               | Pellets                         |   |             |
| Processing Method                   | Injection Molding               |   |             |
| Physical                            | Nominal Value                   | Unit                                    | Test Method |
| Specific Gravity                    | 1.20                            | g/cm <sup>3</sup>                       | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 0.50                            | %                                       | ASTM D955   |
| Water Absorption (24 hr)            | 0.60                            | %                                       | ASTM D570   |
| Hardness                            | Nominal Value                   | Unit                                    | Test Method |
| Rockwell Hardness (R-Scale)         | 120                             |   | ASTM D785   |
| Mechanical                          | Nominal Value                   | Unit                                    | Test Method |
| Tensile Strength (Break)            | 69.6                            | MPa                                     | ASTM D638   |
| Tensile Elongation (Yield)          | 25                              | %                                       | ASTM D638   |
| Flexural Modulus                    | 2410                            | MPa                                     | ASTM D790   |
| Flexural Strength                   | 93.1                            | MPa                                     | ASTM D790   |
| Coefficient of Friction             |                                 |   | ASTM D1894  |
| vs. Steel - Dynamic                 | 0.20                            |   |             |
| vs. Steel - Static                  | 0.14                            |   |             |
| 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) | 64                              | J/m                                     | ASTM D256   |
| Thermal                             | Nominal Value                   | Unit                                    | Test Method |
| Deflection Temperature Under Load   |                                 |   | ASTM D648   |
| 0.45 MPa, Unannealed                | 171                             | °C                                      |             |
| 1.8 MPa, Unannealed                 | 60.0                            | °C                                      |             |

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