

Plaslube® PA6/6 GF10 TL5

Polyamide 66

Techmer Engineered Solutions

Message:

Plaslube® PA6/6 GF10 TL5 is a polyamide 66 (nylon 66) product, which contains a 10% glass fiber reinforced material. It can be processed by injection molding and is available in North America.

Features include:

Wear-resistant

heat stabilizer

Lubrication

| General Information | | | |
|-------------------------------------|--|---|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 10% filler by weight | | |
| Additive | PTFE lubricant (5%) heat stabilizer | | |
| Features | Low friction coefficient Good wear resistance Thermal Stability Lubrication | | |
| Appearance | Available colors | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.16 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 2.1 | % | ASTM D955 |
| Water Absorption (24 hr) | 1.0 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 117 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 73.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 20 | % | ASTM D638 |
| Flexural Modulus | 2140 | MPa | ASTM D790 |
| Flexural Strength | 101 | MPa | ASTM D790 |
| Coefficient of Friction | | | ASTM D1894 |
| With steel-dynamic | 0.28 | | ASTM D1894 |
| With steel-static | 0.22 | | ASTM D1894 |
| Wear Factor | 81 | 10 ⁻⁸ mm ³ /N · m | ASTM D3702 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 43 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|---|---------------|----------|-------------|
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 177 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 93.3 | °C | ASTM D648 |
| CLTE - Flow | 7.9E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+14 | ohms·cm | ASTM D257 |
| Dielectric Strength ¹ | 22 | kV/mm | ASTM D149 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Suggested Max Moisture | 0.10 | % | |
| Rear Temperature | 282 - 293 | °C | |
| Middle Temperature | 288 - 299 | °C | |
| Front Temperature | 277 - 288 | °C | |
| Nozzle Temperature | 271 - 304 | °C | |
| Processing (Melt) Temp | 282 - 304 | °C | |
| Mold Temperature | 79.4 - 104 | °C | |
| Injection Rate | Slow-Moderate | | |
| Back Pressure | 0.00 - 0.345 | MPa | |
| Injection instructions | | | |
| Screw Speed: SlowRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less. | | | |
| NOTE | | | |

1. Method A (short time)

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