

Product Texts

LNP LUBRICOMP IL004 compound is based on Nylon 6/12 resin containing 20% PTFE. Added features of this grade include: Wear Resistant.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 1.8 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 1.8 | % | ISO 294-4, 2577 |
| ASTM Data | | | |
| Mold Shrinkage, MD | 1.8 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 1.8 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2190 | MPa | ISO 527 |
| Yield stress | 49 | MPa | ISO 527 |
| Yield strain | 15.2 | % | ISO 527 |
| Stress at break | 49 | MPa | ISO 527 |
| Strain at break | 15.6 | % | ISO 527 |
| Flexural modulus | 2000 | MPa | ISO 178 |
| Flexural strength | 65 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 39 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 4 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 2060 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 47 | MPa | ASTM D 638 |
| Tensile Strength at Break | 47 | MPa | ASTM D 638 |
| Elongation at Yield | 13.6 | % | ASTM D 638 |
| Elongation at Break | 14.3 | % | ASTM D 638 |
| Flexural Modulus | 2060 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 37 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 571 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 64 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 155 | °C | ISO 75-1/-2 |
| ASTM Data | | | |
| DTUL @ 66 psi | 157 | °C | ASTM D 648 |
| DTUL @ 264 psi | 61 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| Density | 1180 | kg/m ³ | ISO 1183 |
| Water Absorption, 24hr | 0.1 | % | ASTM D 570 |
| Density | 1180 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.2 | % | - |
| Melt temperature | 270 - 275 | °C | - |
| Mold temperature | 65 - 95 | °C | - |
| Zone 1 | 255 - 265 | °C | - |
| Zone 2 | 260 - 270 | °C | - |
| Zone 3 | 270 - 280 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific