# LNP™ LUBRICOMP™ Compound PFL36 - Europe

(PA6+PTFE)-GF30 — Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP LUBRICOMP PFL36 compound is based on Nylon 6 resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **10200** | MPa | ISO 527 |
| Yield stress | **155** | MPa | ISO 527 |
| Yield strain | **2.9** | % | ISO 527 |
| Stress at break | **155** | MPa | ISO 527 |
| Strain at break | **3.2** | % | ISO 527 |
| Flexural modulus | **8600** | MPa | ISO 178 |
| Charpy impact strength, +23°C | **75** | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | **11** | kJ/m² | ISO 179/1eA |
| Izod impact strength, +23°C, 4mm | **75** | kJ/m² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | **12** | kJ/m² | ISO 180/1A |
| **ASTM Data** | | | |
| Tensile Modulus | **10100** | MPa | ASTM D 638 |
| Tensile Strength at Yield | **150** | MPa | ASTM D 638 |
| Tensile Strength at Break | **150** | MPa | ASTM D 638 |
| Elongation at Yield | **2.9** | % | ASTM D 638 |
| Elongation at Break | **3.3** | % | ASTM D 638 |
| Flexural Modulus | **7500** | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | **95** | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | **1000** | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **200** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **215** | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | **210** | °C | ISO 306 |
| **ASTM Data** | | | |
| DTUL @ 66 psi | **215** | °C | ASTM D 648 |
| DTUL @ 264 psi | **205** | °C | ASTM D 648 |
| Vicat Temperature | **210** | °C | ASTM D 1525 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **80** | °C | - |
| Pre-drying - Time | **4** | h | - |
| Processing humidity | **≤0.25** | % | - |
| Melt temperature | **265 - 275** | °C | - |
| Mold temperature | **80 - 95** | °C | - |
| Zone 1 | **250 - 260** | °C | - |
| Zone 2 | **265 - 275** | °C | - |
| Zone 3 | **275 - 290** | °C | - |
| Screw speed | **30 - 60** | rpm | - |
| Back pressure | **0.3 - 0.7** | MPa | - |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Europe