

**Product Texts**

LNP LUBRICOMP EFL36 compound is based on Polyetherimide (PEI) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E207780-101283848](https://www.ulprospector.com/usa/Products/207780-101283848)

| Processing/Physical Characteristics | Value | Unit  | Test Standard   |
|-------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                     |       |       |                 |
| Molding shrinkage, parallel         | 0.2   | %     | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 0.4   | %     | ISO 294-4, 2577 |
| <b>ASTM Data</b>                    |       |       |                 |
| Mold Shrinkage, MD                  | 0.2   | mm/mm | ASTM D 955      |
| Mold Shrinkage, TD                  | 0.5   | mm/mm | ASTM D 955      |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 11200 | MPa               | ISO 527       |
| Stress at break                          | 168   | MPa               | ISO 527       |
| Strain at break                          | 2     | %                 | ISO 527       |
| Flexural modulus                         | 11400 | MPa               | ISO 178       |
| Flexural strength                        | 248   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 46    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 13    | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 12680 | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 175   | MPa               | ASTM D 638    |
| Elongation at Break                      | 2     | %                 | ASTM D 638    |
| Flexural Modulus                         | 11300 | MPa               | ASTM D 790    |
| Flexural Strength                        | 252   | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 122   | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 710   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 204   | °C    | ISO 75-1/-2     |
| Burning behav. at thickness h            | V-0   | class | IEC 60695-11-10 |
| Thickness tested                         | 0.8   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| DTUL @ 264 psi                           | 202   | °C    | ASTM D 648      |

| Other properties       | Value | Unit              | Test Standard  |
|------------------------|-------|-------------------|----------------|
| Humidity absorption    | 0.22  | %                 | Sim. to ISO 62 |
| Density                | 1620  | kg/m <sup>3</sup> | ISO 1183       |
| Water Absorption, 24hr | 0.15  | %                 | ASTM D 570     |
| Density                | 1620  | kg/m <sup>3</sup> | ASTM D 792     |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 150       | °C   | -             |
| Pre-drying - Time                           | 4 - 6     | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 360 - 375 | °C   | -             |
| Mold temperature                            | 120 - 180 | °C   | -             |
| Zone 1                                      | 355 - 365 | °C   | -             |
| Zone 2                                      | 360 - 370 | °C   | -             |
| Zone 3                                      | 365 - 375 | °C   | -             |
| Back pressure                               | 0.3 - 0.7 | MPa  | -             |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Asia Pacific