

**Product Texts**

LNP LUBRICOMP WFL369 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant, Flame Retardant.

UL Yellow Card Link [E45329-101282615](https://www.ulprospector.com/usa/Products/Plastics/Engineering-Plastics/101282615)

| Processing/Physical Characteristics | Value | Unit  | Test Standard   |
|-------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                     |       |       |                 |
| Molding shrinkage, parallel         | 0.5   | %     | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 1.5   | %     | ISO 294-4, 2577 |
| <b>ASTM Data</b>                    |       |       |                 |
| Mold Shrinkage, MD                  | 0.5   | mm/mm | ASTM D 955      |
| Mold Shrinkage, TD                  | 1.5   | mm/mm | ASTM D 955      |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 11000 | MPa               | ISO 527       |
| Stress at break                          | 100   | MPa               | ISO 527       |
| Strain at break                          | 1.7   | %                 | ISO 527       |
| Flexural modulus                         | 8900  | MPa               | ISO 178       |
| Flexural strength                        | 155   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 30    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 5     | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 12410 | MPa               | ASTM D 638    |
| Tensile Strength at Yield                | 105   | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 102   | MPa               | ASTM D 638    |
| Elongation at Yield                      | 2.1   | %                 | ASTM D 638    |
| Elongation at Break                      | 2.1   | %                 | ASTM D 638    |
| Flexural Modulus                         | 10340 | MPa               | ASTM D 790    |
| Flexural Strength                        | 158   | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 58    | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 667   | J/m               | ASTM D 256    |

| Thermal properties                          | Value | Unit  | Test Standard   |
|---|-------|-------|-----------------|
| <b>ISO Data</b>                             |       |       |                 |
| Temp. of deflection under load, 1.80 MPa    | 202   | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa    | 221   | °C    | ISO 75-1/-2     |
| Coeff. of linear therm. expansion, parallel | 29    | E-6/K | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion, normal   | 82    | E-6/K | ISO 11359-1/-2  |
| Burning behav. at 1.5 mm nom. thickn.       | V-0   | class | IEC 60695-11-10 |
| Thickness tested                            | 1.5   | mm    | -               |
| <b>ASTM Data</b>                            |       |       |                 |
| DTUL @ 66 psi                               | 221   | °C    | ASTM D 648      |
| DTUL @ 264 psi                              | 207   | °C    | ASTM D 648      |

| Electrical properties      | Value | Unit | Test Standard |
|----------------------------|-------|------|---------------|
| <b>ISO Data</b>            |       |      |               |
| Comparative tracking index | 275   | -    | IEC 60112     |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1780  | kg/m <sup>3</sup> | ISO 1183      |
| Density          | 1780  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-------|------|---------------|
| Pre-drying - Temperature                    | 120   | °C   | -             |
| Pre-drying - Time                           | 4     | h    | -             |
| Processing humidity                         | ≤0.05 | %    | -             |

|                  |                  |     |   |
|------------------|------------------|-----|---|
| Melt temperature | <b>245 - 260</b> | °C  | - |
| Mold temperature | <b>80 - 100</b>  | °C  | - |
| Zone 1           | <b>230 - 245</b> | °C  | - |
| Zone 2           | <b>245 - 255</b> | °C  | - |
| Zone 3           | <b>250 - 260</b> | °C  | - |
| Screw speed      | <b>30 - 60</b>   | rpm | - |
| Back pressure    | <b>0.2 - 0.3</b> | MPa | - |

## Characteristics

### Processing

Injection Molding

### Additives

Flame retarding agent

### Special Characteristics

Flame retardant

### Regional Availability

North America, Europe, Asia Pacific