

Product Texts

LNP THERMOCOMP LX97024 compound is based on Polyetheretherketone (PEEK) resin containing 15% glass fiber, 5% PTFE. Added features of this grade include: Internally Lubricated, Easy Molding.

UL Yellow Card Link [E45329-101343835](https://www.ulprospector.com/usa/Products/PEEK/PEEK+PTFE-GF15)

| Mechanical properties | Value | Unit | Test Standard |
|--|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 6900 | MPa | ISO 527 |
| Stress at break | 114 | MPa | ISO 527 |
| Strain at break | 2.3 | % | ISO 527 |
| Flexural modulus | 6000 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 30 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 5 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 280 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 27 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 50 | 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 | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (GWIT) | 850 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (3) | 3 | mm | - |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1410 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 120 - 150 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.1 | % | - |
| Melt temperature | 380 - 390 | °C | - |
| Mold temperature | 140 - 165 | °C | - |
| Zone 1 | 350 - 360 | °C | - |
| Zone 2 | 365 - 375 | °C | - |
| Zone 3 | 380 - 395 | °C | - |
| Screw speed | 60 - 100 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific