

Product Texts

LNP LUBRICOMP KAL22 compound is based on Acetal (POM) Copolymer resin containing 10% PTFE, 10% aramid fiber. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E207780-102991912](https://www.ulprospector.com/207780-102991912)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 11 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | - |
| Load | 10 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 13 | g/10min | ASTM D 1238 |
| Temperature | 230 | °C | - |
| Load | 10 | kg | - |
| Mechanical properties | | | |
| ISO Data | | | |
| Tensile Modulus | 3400 | MPa | ISO 527 |
| Yield stress | 62 | MPa | ISO 527 |
| Yield strain | 5.9 | % | ISO 527 |
| Strain at break | 6.5 | % | ISO 527 |
| Flexural modulus | 3300 | MPa | ISO 178 |
| Flexural strength | 88 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 53 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 14 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C, 4mm | 40 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 9 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 3500 | MPa | ASTM D 638 |
| Tensile Strength at Break | 58 | MPa | ASTM D 638 |
| Elongation at Yield | 6.5 | % | ASTM D 638 |
| Elongation at Break | 7.4 | % | ASTM D 638 |
| Flexural Modulus | 3400 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 45 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 540 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 104 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 152 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 152 | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | 153 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 77 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 120 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| ASTM Data | | | |
| DTUL @ 66 psi | 162 | °C | ASTM D 648 |
| DTUL @ 264 psi | 120 | °C | ASTM D 648 |
| Vicat Temperature | 152 | °C | ASTM D 1525 |
| Other properties | | | |
| Humidity absorption | 0.1 | % | Sim. to ISO 62 |
| Density | 1460 | kg/m ³ | ISO 1183 |
| Water Absorption, 24hr | 0.1 | % | ASTM D 570 |
| Density | 1460 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Melt temperature | 200 - 215 | °C | - |
| Mold temperature | 80 - 110 | °C | - |
| Zone 1 | 175 - 190 | °C | - |
| Zone 2 | 195 - 205 | °C | - |
| Zone 3 | 210 - 220 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific