

LNP™ LUBRICOMP™ KL002L compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP KL002L is a compound based on Acetal Copolymer resin containing 10% PTFE. Added features of this grade include: Wear Resistant, Low Extractible.
Also known as: LNP* LUBRICOMP* Compound KL-4020 LE
Product reorder name: KL002L

| General Information | | | |
|--|-------------------------|-------------------|-------------|
| Additive | PTFE Lubricant (10%) | | |
| Features | Good Weather Resistance | | |
| | Low Extractables | | |
| | Lubricated | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.45 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ¹ | 2550 | MPa | ASTM D638 |
| Tensile Strength ² (Break) | 48.0 | MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 9.7 | % | ASTM D638 |
| Flexural Modulus ⁴ (50.0 mm Span) | 2370 | MPa | ASTM D790 |
| Flexural Strength ⁵ (Break, 50.0 mm Span) | 68.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (23°C) | 560 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 92.0 | °C | ASTM D648 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 4.0 | hr | |
| Rear Temperature | 177 to 188 | °C | |
| Middle Temperature | 193 to 204 | °C | |
| Front Temperature | 210 to 221 | °C | |
| Processing (Melt) Temp | 199 to 216 | °C | |
| Mold Temperature | 82.2 to 110 | °C | |
| Back Pressure | 0.172 to 0.344 | MPa | |
| Screw Speed | 30 to 60 | rpm | |
| NOTE | | | |

| | |
|----|--------------------|
| 1. | 50 mm/min |
| 2. | Type I, 5.0 mm/min |
| 3. | Type I, 5.0 mm/min |
| 4. | 1.3 mm/min |
| 5. | 1.3 mm/min |

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