# LNP™ LUBRICOMP™ COMPOUND DL002

DL-4020
REGION ASIA

## DESCRIPTION

LNP LUBRICOMP* DL002 is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include: Wear Resistant.

## TYPICAL PROPERTY VALUES

Revision 20190717

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break | 53 | MPa | ASTM D 638 |
| Tensile Strain, break | 53 | % | ASTM D 638 |
| Flexural Stress | 81 | MPa | ASTM D 790 |
| Flexural Modulus | 2270 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | NB | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 240 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 128 | °C | ASTM D 648 |
| PHYSICAL | | | |
| Density | 1.25 | g/cm³ | ASTM D 792 |
| Mold Shrinkage, flow, 24 hrs | 0.7 – 0.9 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 0.7 – 0.9 | % | ASTM D 955 |
| Wear Factor Washer | 97 | 10^-10 in^5-min/ft-lb-hr | ASTM D 3702 Modified: Manual |
| Dynamic COF | 0.28 | - | ASTM D 3702 Modified: Manual |
| Static COF | 0.17 | - | ASTM D 3702 Modified: Manual |
| FLAME CHARACTERISTICS (1) | | | |
| UL Yellow Card Link | E207780-101343861 | - | - |
| UL Recognized, 94V-1 Flame Class Rating | ≥3 | mm | UL 94 |
| UL Recognized, 94HB Flame Class Rating | ≥1.5 | mm | UL 94 |
| INJECTION MOLDING | | | |
| Drying Temperature | 120 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 300 – 315 | °C | |
| Front - Zone 3 Temperature | 310 – 320 | °C | |
| Middle - Zone 2 Temperature | 305 – 315 | °C | |
| Rear - Zone 1 Temperature | 295 – 305 | °C | |
| Mold Temperature | 80 – 110 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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