# LNP™ LUBRICOMP™ COMPOUND RCL36

RCL-4036
REGION EUROPE

## DESCRIPTION

LNP LUBRICOMP RCL36 is a compound based on Nylon 66 resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wesr Resistant, Electrically Conductive.

## TYPICAL PROPERTY VALUES

Revision 20190718

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, yield, 5 mm/min | 220 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 1.6 | % | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 315 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 16800 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 64 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 10 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| CTE, 23°C to 60°C, flow | 5.E-06 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 60°C, xflow | 8.E-05 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 251 | °C | ISO 75/Af |
| Relative Temp Index, Elec [1] | 65 | °C | UL 746B |
| Relative Temp Index, Mech w/impact [1] | 65 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact [1] | 65 | °C | UL 746B |
| PHYSICAL | | | |
| Wear Factor Washer | 15 | 10^-10 in^5-min/ft-lb-hr | ASTM D 3702 Modified: Manual |
| Dynamic COF | 0.36 | - | ASTM D 3702 Modified: Manual |
| Density | 1.38 | g/cm³ | ISO 1183 |
| ELECTRICAL | | | |
| Surface Resistivity | 1.E+01 – 1.E+03 | Ohm | ASTM D 257 |
| FLAME CHARACTERISTICS [1] | | | |
| UL Yellow Card Link | E45329-101282593 | - | - |
| UL Recognized, 94HB Flame Class Rating | 1.5 | mm | UL 94 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.15 – 0.25 | % | |
| Melt Temperature | 280 – 305 | °C | |
| Front - Zone 3 Temperature | 295 – 305 | °C | |
| Middle - Zone 2 Temperature | 280 – 295 | °C | |
| Rear - Zone 1 Temperature | 265 – 275 | °C | |
| Mold Temperature | 95 – 110 | °C | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **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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