# LNP™ LUBRICOMP™ COMPOUND RCL36

RCL-4036
REGION EUROPE

## DESCRIPTION

LNP LUBRICOMP RCL36 compound is based on Nylon 6/6 resin containing 15% PTFE, 30% carbon fiber. Added features of this grade include: Wear Resistant, Electrically Conductive.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Electrically Conductive, Wear resistant, Carbon fiber filled, High stiffness/Strength |
| **Fillers** | Carbon Fiber, PTFE |
| **Polymer Types** | Polyamide 66 (Nylon 66) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Building and Construction | Building Component |
| Consumer | Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

## TYPICAL PROPERTY VALUES

Revision 20260205

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **MECHANICAL** [1] | | | |
| **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** [1] | | | |
| **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** [1] | | | |
| **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** [2] | 65 | °C | UL 746B |
| **Relative Temp Index, Mech w/impact** [2] | 65 | °C | UL 746B |
| **Relative Temp Index, Mech w/o impact** [2] | 65 | °C | UL 746B |
| **PHYSICAL** [1] | | | |
| **Wear Factor Washer** | 15 | 10^-10 in^5-min/ft-lb-hr | ASTM D3702 Modified: Manual |
| **Dynamic COF** | 0.36 | - | ASTM D3702 Modified: Manual |
| **Density** | 1.38 | g/cm³ | ISO 1183 |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| ELECTRICAL [1] | | | |
| Surface Resistivity | 1.E+01 – 1.E+03 | Ω | ASTM D257 |
| FLAME CHARACTERISTICS [2] | | | |
| UL Yellow Card Link | E45329-101282593 | - | - |
| UL Recognized, 94HB Flame Class Rating | 1.5 | mm | UL 94 |
| INJECTION MOLDING [3] | | | |
| 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 | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

## MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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