# LNP™ LUBRICOMP™ COMPOUND LCL36

## DESCRIPTION

LNP LUBRICOMP LCL36 is a compound based on Polyetheretherketone containing Carbon Fiber , PTFE. Added features of this material include Electrically Conductive, Internally Lubricated.

## TYPICAL PROPERTY VALUES

Revision 20200109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break, 5 mm/min | 201 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 3.7 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 13500 | MPa | ISO 527 |
| Flexural Stress, break, 2 mm/min | 267 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 16300 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 35 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 9 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | >300 | °C | ISO 75/Af |
| Relative Temp Index, Elec (1) | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/impact (1) | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact (1) | 220 | °C | UL 746B |
| PHYSICAL | | | |
| Density | 1.47 | g/cm³ | ISO 1183 |
| ELECTRICAL | | | |
| Surface Resistivity | 1.E+01 – 1.E+03 | Ohm | ASTM D 257 |
| FLAME CHARACTERISTICS (1) | | | |
| UL Yellow Card Link | E45329-101284426 | - | - |
| UL Recognized, 94V-0 Flame Class Rating | 0.7 | mm | UL 94 |
| INJECTION MOLDING | | | |
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.1 | % | |
| Melt Temperature | 380 – 390 | °C | |
| Front - Zone 3 Temperature | 380 – 395 | °C | |
| Middle - Zone 2 Temperature | 365 – 375 | °C | |
| Rear - Zone 1 Temperature | 350 – 360 | °C | |
| Mold Temperature | 140 – 165 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 60 – 100 | 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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