



**LNP™ LUBRICOMP™ Compound LCL36**  
**Europe-Africa-Middle East: COMMERCIAL**

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

| TYPICAL PROPERTIES <sup>1</sup>             | TYPICAL VALUE   | Unit              | Standard   |
|---------------------------------------------|-----------------|-------------------|------------|
| <b>MECHANICAL</b>                           |                 |                   |            |
| 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    |
| <b>IMPACT</b>                               |                 |                   |            |
| Izod Impact, unnotched 80*10*4 +23°C        | 35              | kJ/m <sup>2</sup> | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C          | 9               | kJ/m <sup>2</sup> | ISO 180/1A |
| <b>THERMAL</b>                              |                 |                   |            |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       | >300            | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                             |                 |                   |            |
| Density                                     | 1.47            | g/cm <sup>3</sup> | ISO 1183   |
| <b>ELECTRICAL</b>                           |                 |                   |            |
| Surface Resistivity                         | 1.E+01 - 1.E+03 | Ohm               | ASTM D 257 |
| <b>FLAME CHARACTERISTICS</b>                |                 |                   |            |
| UL Recognized, 94V-0 Flame Class Rating (3) | 0.7             | mm                | UL 94      |



**LNP™ LUBRICOMP™ Compound LCL36**  
**Europe-Africa-Middle East: COMMERCIAL**

| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| 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  |