

**Product Texts**

LNP LUBRICOMP RZL36 compound is based on Nylon 6/6 resin containing 30% milled glass, 15% PTFE. Added features of this grade include: Wear Resistant, Dimensional Control.

| <b>Mechanical properties</b>             | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|--|--------------|-------------------|----------------------|
| <b>ISO Data</b>                          |              |                   |                      |
| Tensile Modulus                          | <b>4800</b>  | MPa               | ISO 527              |
| Yield stress                             | <b>54</b>    | MPa               | ISO 527              |
| Yield strain                             | <b>2.1</b>   | %                 | ISO 527              |
| Flexural modulus                         | <b>4300</b>  | MPa               | ISO 178              |
| Izod impact strength, +23°C, 4mm         | <b>20</b>    | kJ/m <sup>2</sup> | ISO 180/1U           |
| Izod notched impact strength, +23°C, 4mm | <b>4</b>     | kJ/m <sup>2</sup> | ISO 180/1A           |

| <b>Thermal properties</b>                   | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---|--------------|-------------|----------------------|
| <b>ISO Data</b>                             |              |             |                      |
| Temp. of deflection under load, 1.80 MPa    | <b>121</b>   | °C          | ISO 75-1/-2          |
| Temp. of deflection under load, 0.45 MPa    | <b>240</b>   | °C          | ISO 75-1/-2          |
| Coeff. of linear therm. expansion, parallel | <b>53</b>    | E-6/K       | ISO 11359-1/-2       |
| Coeff. of linear therm. expansion, normal   | <b>70</b>    | E-6/K       | ISO 11359-1/-2       |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | <b>1510</b>  | kg/m <sup>3</sup> | ISO 1183             |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b>     | <b>Unit</b> | <b>Test Standard</b> |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature                           | <b>80</b>        | °C          | -                    |
| Pre-drying - Time                                  | <b>4</b>         | h           | -                    |
| Processing humidity                                | <b>≤0.25</b>     | %           | -                    |
| Melt temperature                                   | <b>280 - 305</b> | °C          | -                    |
| Mold temperature                                   | <b>95 - 110</b>  | °C          | -                    |
| Zone 1   | <b>265 - 275</b> | °C          | -                    |
| Zone 2   | <b>280 - 295</b> | °C          | -                    |
| Zone 3   | <b>295 - 305</b> | °C          | -                    |
| Screw speed  | <b>30 - 60</b>   | rpm         | -                    |
| Back pressure                                      | <b>0.2 - 0.3</b> | MPa         | -                    |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific