

## SABIC Innovative Plastics LNP LUBRICOMP RZL36 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

**Material Notes:**

LNP\* LUBRICOMP\* RZL36 is a compound based on PA 66 resin containing Milled Glass, PTFE. Added features include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RZL36-PA-66-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RZL36-PA-66-Europe-Africa-Middle-East.php)

| Physical Properties         | Metric      | English                   | Comments     |
|-----------------------------|-------------|---------------------------|--------------|
| Density                     | 1.51 g/cc   | 0.0546 lb/in <sup>3</sup> | ISO 1183     |
| Linear Mold Shrinkage, Flow | 0.012 cm/cm | 0.012 in/in               | SABIC Method |

| Mechanical Properties        | Metric                 | English                    | Comments            |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength, Yield      | 54.0 MPa               | 7830 psi                   | 5 mm/min; ISO 527   |
| Elongation at Yield          | 2.1 %                  | 2.1 %                      | 5 mm/min; ISO 527   |
| Tensile Modulus              | 4.80 GPa               | 696 ksi                    | 1 mm/min; ISO 527   |
| Flexural Yield Strength      | 94.0 MPa               | 13600 psi                  | 2 mm/min; ISO 178   |
| Flexural Modulus             | 4.30 GPa               | 624 ksi                    | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 4.00 kJ/m <sup>2</sup> | 1.90 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 20.0 kJ/m <sup>2</sup> | 9.52 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U |

| Thermal Properties                          | Metric   | English  | Comments                         |
|---|--|--|----------------------------------|
| CTE, linear, Parallel to Flow               | 53.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 29.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2                      |
|   | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$      | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$         |                                  |
| CTE, linear, Transverse to Flow             | 70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2                      |
|   | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$      | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$         |                                  |
| Deflection Temperature at 0.46 MPa (66 psi) | 240 $\text{Å}^\circ\text{C}$                           | 464 $\text{Å}^\circ\text{F}$                             | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | 121 $\text{Å}^\circ\text{C}$                           | 250 $\text{Å}^\circ\text{F}$                             | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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