

## SABIC Innovative Plastics LNP LUBRICOMP RBL36L PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP\* LUBRICOMP\* RBL36L is a compound based on Nylon 66 containing 30% Glass Bead, 15% PTFE. Added features s of this grade are:  
Low Extractable, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RBL36L-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RBL36L-PA-66.php)

| Physical Properties               | Metric                                 | English                                | Comments                           |
|-----------------------------------|----------------------------------------|----------------------------------------|------------------------------------|
| Specific Gravity                  | 1.53 g/cc                              | 1.53 g/cc                              | ASTM D792                          |
| Density                           | 1.52 g/cc                              | 0.0549 lb/in <sup>3</sup>              | ISO 1183                           |
| Moisture Absorption               | 0.430 %                                | 0.430 %                                | 50% RH, 24 hrs; ASTM D570          |
|                                   | 0.540 %                                | 0.540 %                                | 23 <sup>o</sup> C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow       | >= 0.020 cm/cm<br>@Time 86400 sec      | >= 0.020 in/in<br>@Time 24.0 hour      | ASTM D955                          |
| Linear Mold Shrinkage, Transverse | 0.010 - 0.030 cm/cm<br>@Time 86400 sec | 0.010 - 0.030 in/in<br>@Time 24.0 hour | ASTM D955                          |

| Mechanical Properties     | Metric     | English        | Comments                          |
|---------------------------|------------|----------------|-----------------------------------|
| Tensile Strength at Break | 58.0 MPa   | 8410 psi       | 5 mm/min; ISO 527                 |
|                           | 66.0 MPa   | 9570 psi       | Type I, 5 mm/min; ASTM D638       |
| Elongation at Break       | 8.3 %      | 8.3 %          | 5 mm/min; ISO 527                 |
|                           | 9.1 %      | 9.1 %          | Type I, 5 mm/min; ASTM D638       |
| Elongation at Yield       | 8.8 %      | 8.8 %          | Type I, 5 mm/min; ASTM D638       |
| Tensile Modulus           | 4.10 GPa   | 595 ksi        | 1 mm/min; ISO 527                 |
|                           | 4.18 GPa   | 606 ksi        | 5 mm/min; ASTM D638               |
| Flexural Strength         | 109 MPa    | 15800 psi      | ISO 178                           |
| Flexural Modulus          | 3.81 GPa   | 553 ksi        | 2 mm/min; ISO 178                 |
|                           | 3.95 GPa   | 573 ksi        | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched      | 0.410 J/cm | 0.768 ft-lb/in | ASTM D256                         |
| Izod Impact, Unnotched    | 3.37 J/cm  | 6.31 ft-lb/in  | ASTM D4812                        |

| Mechanical Properties            | Metric                           | English                                    | Comments                    |
|----------------------------------|----------------------------------|--------------------------------------------|-----------------------------|
| Izod Impact, Notched (ISO)       | 4.00 kJ/mÂ²                      | 1.50 ft-lb/inÂ²                            | 80*10*4, ISO 180/1A         |
| Izod Impact, Unnotched (ISO)     | 23.0 kJ/mÂ²                      | 10.9 ft-lb/inÂ²                            | 80*10*4; ISO 180/1U         |
| Dart Drop, Total Energy          | 5.00 J<br>@Temperature 23.0 Â°C  | 3.69 ft-lb<br>@Temperature 73.4 Â°F        | ASTM D3763                  |
| Impact Test                      | 1.00 J                           | 0.738 ft-lb                                | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.57                             | 0.57                                       | ASTM D3702 Modified         |
| Coefficient of Friction, Static  | 0.58                             | 0.58                                       | ASTM D3702 Modified         |
| K (wear) Factor                  | 64.5 x 10 <sup>-8</sup> mmÂ³/N-M | 32.0 x 10 <sup>-10</sup> inÂ³-min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties                          | Metric                                          | English                                           | Comments                         |
|---------------------------------------------|-------------------------------------------------|---------------------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow               | 102 Âµm/m-Â°C<br>@Temperature -30.0 - 30.0 Â°C  | 56.7 Âµin/in-Â°F<br>@Temperature -22.0 - 86.0 Â°F | ASTM D696                        |
| CTE, linear, Transverse to Flow             | 75.2 Âµm/m-Â°C<br>@Temperature -30.0 - 30.0 Â°C | 41.8 Âµin/in-Â°F<br>@Temperature -22.0 - 86.0 Â°F | ASTM D696                        |
| Deflection Temperature at 0.46 MPa (66 psi) | 223 Â°C                                         | 433 Â°F                                           | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
|                                             | 231 Â°C<br>@Thickness 3.20 mm                   | 448 Â°F<br>@Thickness 0.126 in                    | unannealed; ASTM D648            |
| Deflection Temperature at 1.8 MPa (264 psi) | 97.0 Â°C                                        | 207 Â°F                                           | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                             | 91.0 Â°C<br>@Thickness 3.20 mm                  | 196 Â°F<br>@Thickness 0.126 in                    | unannealed; ASTM D648            |

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