

## SABIC Innovative Plastics LNP LUBRILOY R2000A PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

LNP LUBRILOY\* R2000A is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRILOY-R2000A-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-R2000A-PA-66.php)

| Physical Properties               | Metric          | English                   | Comments                           |
|-----------------------------------|-----------------|---------------------------|------------------------------------|
| Density                           | 1.02 g/cc       | 0.0368 lb/in <sup>3</sup> | ASTM D792                          |
|                                   | 1.02 g/cc       | 0.0368 lb/in <sup>3</sup> | ISO 1183                           |
| Moisture Absorption               | 0.300 %         | 0.300 %                   | 50% RH, 24 hrs; ASTM D570          |
|                                   | 0.430 %         | 0.430 %                   | 23 <sup>o</sup> C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow       | 0.0257 cm/cm    | 0.0257 in/in              | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
|                                   | 0.026 cm/cm     | 0.026 in/in               | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
| Linear Mold Shrinkage, Transverse | 0.026 cm/cm     | 0.026 in/in               | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |
|                                   | 0.026 cm/cm     | 0.026 in/in               | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour           |                                    |

| Mechanical Properties     | Metric   | English  | Comments  |
|---------------------------|----------|----------|-----------|
| Tensile Strength at Break | 43.0 MPa | 6240 psi | ASTM D638 |
|                           | 43.0 MPa | 6240 psi | ISO 527   |
| Tensile Strength, Yield   | 43.0 MPa | 6240 psi | ISO 527   |
|                           | 47.0 MPa | 6820 psi | ASTM D638 |
| Elongation at Break       | 29.6 %   | 29.6 %   | ISO 527   |
|                           | 38.6 %   | 38.6 %   | ASTM D638 |
| Elongation at Yield       | 6.0 %    | 6.0 %    | ASTM D638 |
|                           | 8.8 %    | 8.8 %    | ISO 527   |

| Tensile Modulus<br>Mechanical Properties | 1.99 GPa<br>Metric                           | 289 ksi<br>English                                         | 50 mm/min; ASTM D638<br>Comments                 |
|------------------------------------------|----------------------------------------------|------------------------------------------------------------|--------------------------------------------------|
|                                          | 2.10 GPa                                     | 305 ksi                                                    | 1 mm/min; ISO 527                                |
| Flexural Strength                        | 67.0 MPa                                     | 9720 psi                                                   | ASTM D790                                        |
|                                          | 69.0 MPa                                     | 10000 psi                                                  | ISO 178                                          |
| Flexural Modulus                         | 1.93 GPa                                     | 280 ksi                                                    | ASTM D790                                        |
|                                          | 2.20 GPa                                     | 319 ksi                                                    | ISO 178                                          |
| Izod Impact, Notched                     | 0.740 J/cm                                   | 1.39 ft-lb/in                                              | ASTM D256                                        |
| Izod Impact, Unnotched                   | NB                                           | NB                                                         | ASTM D4812                                       |
| Izod Impact, Notched (ISO)               | 6.00 kJ/m <sup>2</sup>                       | 2.86 ft-lb/in <sup>2</sup>                                 | 80*10*4; ISO 180/1A                              |
| Izod Impact, Unnotched (ISO)             | 137 kJ/m <sup>2</sup>                        | 65.2 ft-lb/in <sup>2</sup>                                 | 80*10*4; ISO 180/1U                              |
| Dart Drop, Total Energy                  | 6.00 J                                       | 4.43 ft-lb                                                 | Instrumented Impact Energy @ peak;<br>ASTM D3763 |
| Impact Test                              | 1.00 J                                       | 0.738 ft-lb                                                | Multiaxial Impact; ISO 6603                      |
| Coefficient of Friction, Dynamic         | 0.31                                         | 0.31                                                       | ASTM D3702 Modified                              |
| Coefficient of Friction, Static          | 0.27                                         | 0.27                                                       | ASTM D3702 Modified                              |
| K (wear) Factor                          | 24.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M | 12.0 x 10 <sup>-10</sup> in <sup>3</sup> -<br>min/ft-lb-hr | Washer; ASTM D3702 Modified                      |

| Thermal Properties                             | Metric                         | English                        | Comments                         |
|------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 66.0 Â°C<br>@Thickness 3.20 mm | 151 Â°F<br>@Thickness 0.126 in | unannealed; ASTM D648            |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 67.0 Â°C                       | 153 Â°F                        | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                                | 62.0 Â°C<br>@Thickness 3.20 mm | 144 Â°F<br>@Thickness 0.126 in | unannealed; ASTM D648            |
| Flammability, UL94                             | HB<br>@Thickness 1.50 mm       | HB<br>@Thickness 0.0591 in     | UL 94 by SABIC-IP                |

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