

SABIC Innovative Plastics LNP LUBRILOY RX99650 PA 66 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP LUBRILOY* RX99650 is a compound based on Nylon 66 resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-RX99650-PA-66-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|----------------------|---------------------------|------------------------------------|
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ASTM D792 |
| | 1.10 g/cc | 0.0397 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.730 % | 0.730 % | 50% RH, 24 hrs; ASTM D570 |
| | 1.12 % | 1.12 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.024 - 0.026 cm/cm | 0.024 - 0.026 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0243 - 0.026 cm/cm | 0.0243 - 0.026 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.024 - 0.026 cm/cm | 0.024 - 0.026 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0243 - 0.026 cm/cm | 0.0243 - 0.026 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-----------|
| Tensile Strength at Break | 53.0 MPa | 7690 psi | ASTM D638 |
| | 54.0 MPa | 7830 psi | ISO 527 |
| Tensile Strength, Yield | 55.0 MPa | 7980 psi | ISO 527 |
| | 59.0 MPa | 8560 psi | ASTM D638 |
| Elongation at Break | 31 % | 31 % | ASTM D638 |
| | 64 % | 64 % | ISO 527 |
| Elongation at Yield | 5.0 % | 5.0 % | ASTM D638 |
| | 16 % | 16 % | ISO 527 |

| Tensile Modulus Mechanical Properties | 2.16 GPa Metric | 313 ksi English | 1 mm/min; ISO 527 Comments |
|--|--|--|--|
| | 2.22 GPa | 322 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 74.0 MPa | 10700 psi | ISO 178 |
| | 80.0 MPa | 11600 psi | ASTM D790 |
| Flexural Modulus | 2.00 GPa | 290 ksi | ISO 178 |
| | 2.08 GPa | 302 ksi | ASTM D790 |
| Izod Impact, Notched | 4.27 J/cm | 8.00 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | NB | NB | ASTM D4812 |
| Izod Impact, Notched (ISO) | 19.0 kJ/m ² | 9.04 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 137 kJ/m ² | 65.2 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 76.0 J | 56.1 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 65.0 J | 47.9 ft-lb | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.31 | 0.31 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.18 | 0.18 | ASTM D3702 Modified |
| K (wear) Factor | 16.1 x 10 ⁻⁸ mm ³ /N-M | 8.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|--|---|--|----------------------------------|
| CTE, linear, Parallel to Flow | 121 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 67.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 121 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 67.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 113 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 62.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 188 $\text{Å}^\circ\text{C}$ | 370 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 206 $\text{Å}^\circ\text{C}$ | 403 $\text{Å}^\circ\text{F}$ | |

| Thermal Properties | Metric @ Thickness 3.20 mm | English @ Thickness 0.126 in | unannealed; ASTM D648 Comments |
|--|--------------------------------|---------------------------------|-----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 67.0 Â°C | 153 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 63.0 Â°C @Thickness 3.20 mm | 145 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

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