

SABIC Innovative Plastics LNP LUBRICOMP RFL36SXS PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFL36SXS is a compound based on PA 66 resin containing Glass Fiber, PTFE. Added features include Internally Lubricated, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFL36SXS-PA-66-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------|---------------------------|--------------|
| Density | 1.49 g/cc | 0.0538 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm | 0.0020 in/in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|--|--|-----------------------------|
| Tensile Strength, Yield | 171 MPa | 24800 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.1 % | 3.1 % | 5 mm/min; ISO 527 |
| Flexural Yield Strength | 247 MPa | 35800 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 8.80 GPa | 1280 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 12.0 kJ/m ² | 5.71 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 80.0 kJ/m ² | 38.1 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Coefficient of Friction, Dynamic | 0.54 | 0.54 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.46 | 0.46 | ASTM D3702 Modified |
| K (wear) Factor | 24.2 x 10 ⁻⁸ mm ³ /N-M | 12.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-----------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 23.0 Åµm/m-Å°C | 12.8 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 Å°C | @Temperature 73.4 - 140 Å°F | |
| CTE, linear, Transverse to Flow | 100 Åµm/m-Å°C | 55.6 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 Å°C | @Temperature 73.4 - 140 Å°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 248 Å°C | 478 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Åf |

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