

SABIC Innovative Plastics LNP LUBRICOMP RFP36S PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* LUBRICOMP* RFP36S is a compound based on Nylon 66 resin containing 30% Glass Fiber, 15% PTFE/Silicone. Added features of this material include: Wear Resistant, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-RFP36S-PA-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|---------------------------|---------------------------|
| Density | 1.48 g/cc | 0.0535 lb/in ³ | ASTM D792 |
| | 1.48 g/cc | 0.0535 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.700 % | 0.700 % | 50% RH, 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0020 cm/cm | 0.0020 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0021 cm/cm | 0.0021 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0097 cm/cm | 0.0097 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.010 cm/cm | 0.010 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 133 MPa | 19300 psi | ASTM D638 |
| | 135 MPa | 19600 psi | ISO 527 |
| Elongation at Break | 2.1 % | 2.1 % | ASTM D638 |
| | 2.2 % | 2.2 % | ISO 527 |
| Tensile Modulus | 9.80 GPa | 1420 ksi | 1 mm/min; ISO 527 |
| | 10.48 GPa | 1520 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 193 MPa | 28000 psi | ASTM D790 |
| | 207 MPa | 30000 psi | ISO 178 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |

| Mechanical Properties | 9.40 GPa Metric | 1360 ksi English | ISO 178 Comments |
|----------------------------------|--|--|--|
| Izod Impact, Notched | 1.38 J/cm | 2.59 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 8.01 J/cm | 15.0 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² | 4.28 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 50.0 kJ/m ² | 23.8 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 8.00 J | 5.90 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 5.00 J | 3.69 ft-lb | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.56 | 0.56 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.48 | 0.48 | ASTM D3702 Modified |
| K (wear) Factor | 22.2 x 10 ⁻⁸ mm ³ /N-M | 11.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|--|------------------------------|-------------------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 236 °C | 457 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 233 °C @Thickness 3.20 mm | 451 °F @Thickness 0.126 in | unannealed; ASTM D648 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China