

LNPTTM LUBRICOMPTM COMPOUND RFG16

DESCRIPTION

LNP LUBRICOMP RFG16 compound is based on Nylon 6/6 resin containing 30% glass fiber and graphite. Added features of this grade include: Internally Lubricated, Wear Resistant.

| GENERAL INFORMATION | |
|-----------------------|--|
| Features | Wear resistant, High stiffness/Strength, No PFAS intentionally added |
| Fillers | Glass Fiber, Graphite |
| Polymer Types | Polyamide 66 (Nylon 66) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|----------------------------|--|
| Building and Construction | Building Component |
| Consumer | Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| MECHANICAL ⁽¹⁾ | | | |
| Tensile Stress, break, 5 mm/min | 156 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 2.2 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 9800 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 249 | MPa | ISO 178 |
| Flexural Stress, break, 2 mm/min | 249 | MPa | ISO 178 |
| Flexural Strain, break, 2 mm/min | 3.8 | % | ISO 178 |
| Flexural Modulus, 2 mm/min | 8700 | MPa | ISO 178 |
| IMPACT ⁽¹⁾ | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 60 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 8 | kJ/m ² | ISO 180/1A |
| THERMAL ⁽¹⁾ | | | |
| CTE, 23°C to 60°C, flow | 2.6E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 60°C, xflow | 8.9E-05 | 1/°C | ISO 11359-2 |
| PHYSICAL ⁽¹⁾ | | | |
| Mold Shrinkage, flow ⁽²⁾ | 0.24 | % | SABIC method |
| Density | 1.4 | g/cm ³ | ISO 1183 |
| INJECTION MOLDING ⁽³⁾ | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.15 – 0.25 | % | |
| Melt Temperature | 280 – 305 | °C | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| Front - Zone 3 Temperature | 295 – 305 | °C | |
| Middle - Zone 2 Temperature | 280 – 295 | °C | |
| Rear - Zone 1 Temperature | 265 – 275 | °C | |
| Mold Temperature | 95 – 110 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.