

LNPTM LUBRICOMPTM COMPOUND RFL26

RFL-4026

DESCRIPTION

LNP LUBRICOMP RFL26 compound is based on Nylon 6/6 resin containing 30% glass fiber, 10% PTFE. Added features of this grade include: Wear Resistant.

| GENERAL INFORMATION | |
|-----------------------|---|
| Features | Wear resistant, High stiffness/Strength |
| Fillers | Glass Fiber, PTFE |
| 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 | 185 | MPa | ASTM D638 |
| Tensile Strain, break | 3.3 | % | ASTM D638 |
| Flexural Stress | 275 | MPa | ASTM D790 |
| Flexural Stress | 262 | MPa | ISO 178 |
| IMPACT ⁽¹⁾ | | | |
| Multiaxial Impact | 4 | J | ISO 6603 |
| THERMAL ⁽¹⁾ | | | |
| CTE, -40°C to 40°C, flow | 3.E-05 | 1/°C | ASTM E831 |
| Relative Temp Index, Elec ⁽²⁾ | 65 | °C | UL 746B |
| Relative Temp Index, Mech w/impact ⁽²⁾ | 65 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact ⁽²⁾ | 65 | °C | UL 746B |
| PHYSICAL ⁽¹⁾ | | | |
| Density | 1.46 | g/cm ³ | ASTM D792 |
| Wear Factor Washer | 6 | 10 ⁻⁴ -10 in ³ -min/ft-lb-hr | ASTM D3702 Modified: Manual |
| Dynamic COF | 0.61 | - | ASTM D3702 Modified: Manual |
| FLAME CHARACTERISTICS ⁽²⁾ | | | |
| UL Yellow Card Link | E121562-101282712 | - | - |
| UL Recognized, 94HB Flame Class Rating | ≥1.5 | mm | UL 94 |
| INJECTION MOLDING ⁽³⁾ | | | |
| Drying Temperature | 80 | °C | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.15 – 0.25 | % | |
| Melt Temperature | 280 – 305 | °C | |
| 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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (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.

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