



## LNP™ LUBRICOMP™ Compound RX05049

### Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound RFL-4536 S-1 NAT

Product reorder name: RX05049

LNP LUBRICOMP RX05049 is a compound based on PA 66 resin containing Glass Fiber, PTFE, Proprietary Lubricant. Added features include; Internally Lubricated.

| TYPICAL PROPERTIES <sup>1</sup>       | TYPICAL VALUE | Unit              | Standard     |
|---------------------------------------|---------------|-------------------|--------------|
| <b>MECHANICAL</b>                     |               |                   |              |
| Tensile Stress, break, 5 mm/min       | 173           | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min       | 2.5           | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min             | 10500         | MPa               | ISO 527      |
| Flexural Stress, yield, 2 mm/min      | 233           | MPa               | ISO 178      |
| Flexural Stress, break, 2 mm/min      | 233           | MPa               | ISO 178      |
| Flexural Strain, break, 2 mm/min      | 3.3           | %                 | ISO 178      |
| Flexural Modulus, 2 mm/min            | 8600          | MPa               | ISO 178      |
| <b>IMPACT</b>                         |               |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C  | 60            | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C    | 11            | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL</b>                        |               |                   |              |
| CTE, 23°C to 60°C, flow               | 2.2E-05       | 1/°C              | ISO 11359-2  |
| CTE, 23°C to 60°C, xflow              | 7.7E-05       | 1/°C              | ISO 11359-2  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 248           | °C                | ISO 75/Af    |
| <b>PHYSICAL</b>                       |               |                   |              |
| Mold Shrinkage, flow (5)              | 0.24          | %                 | SABIC Method |
| Density                               | 1.46          | g/cm <sup>3</sup> | ISO 1183     |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80            | °C   |
| 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  |