

LNPTM LUBRICOMPTM COMPOUND RX93237

DESCRIPTION

LNP LUBRICOMP RX93237 compound is based on Nylon 6/6 resin containing PTFE, Silicone Oil and MoS2. Added features of this grade include: Internally Lubricated, Wear Resistant.

GENERAL INFORMATION

| | |
|-----------------------|-----------------------------|
| Features | Wear resistant |
| Fillers | Unreinforced, PTFE/Silicone |
| Polymer Types | Polyamide 66 (Nylon 66) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|----------------------------|-----------------------------------|
| Automotive | Automotive Under the Hood |
| Consumer | Sport/Leisure, Personal Accessory |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|-------------------|--------------|
| MECHANICAL⁽¹⁾ | | | |
| Tensile Stress, break, 5 mm/min | 59 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 4.9 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 2700 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 84 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 2300 | MPa | ISO 178 |
| IMPACT⁽¹⁾ | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 45 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 5 | kJ/m ² | ISO 180/1A |
| THERMAL⁽¹⁾ | | | |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 219 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 66 | °C | ISO 75/Af |
| PHYSICAL⁽¹⁾ | | | |
| Mold Shrinkage on Tensile Bar, flow ⁽²⁾ | 1.8 – 2 | % | SABIC method |
| Density | 1.24 | 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 | 275 – 290 | °C | |
| Front - Zone 3 Temperature | 295 – 305 | °C | |
| Middle - Zone 2 Temperature | 280 – 295 | °C | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---------------------------|----------------|-------|--------------|
| Rear - Zone 1 Temperature | 265 – 275 | °C | |
| Mold Temperature | 80 – 95 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |