



## LNP™ LUBRICOMP™ Compound YI001

### Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound YL-4410 NAT

Product reorder name: YI001

LNP LUBRICOMP YI001 is a compound based on Polyester Elastomer containing Silicone. Added features include; Internally Lubricated.

| TYPICAL PROPERTIES <sup>1</sup>        | TYPICAL VALUE | Unit              | Standard     |
|----------------------------------------|---------------|-------------------|--------------|
| <b>MECHANICAL</b>                      |               |                   |              |
| Tensile Stress, yield, 50 mm/min       | 14            | MPa               | ISO 527      |
| Tensile Strain, yield, 50 mm/min       | 37            | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min              | 180           | MPa               | ISO 527      |
| Flexural Stress, yield, 2 mm/min       | 12            | MPa               | ISO 178      |
| Flexural Stress, break, 2 mm/min       | 9             | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min             | 180           | MPa               | ISO 178      |
| <b>IMPACT</b>                          |               |                   |              |
| Izod Impact, notched 80*10*4 +23°C     | 45            | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL</b>                         |               |                   |              |
| CTE, 23°C to 60°C, flow                | 2.E-04        | 1/°C              | ISO 11359-2  |
| CTE, 23°C to 60°C, xflow               | 2.16E-04      | 1/°C              | ISO 11359-2  |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 193           | °C                | ISO 75/Bf    |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 83            | °C                | ISO 75/Af    |
| <b>PHYSICAL</b>                        |               |                   |              |
| Mold Shrinkage, flow (5)               | 2.1           | %                 | SABIC Method |
| Density                                | 1.19          | g/cm <sup>3</sup> | ISO 1183     |
| Water Absorption, 23°C/24hrs           | 0.6           | %                 | ISO 62-1     |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80            | °C   |
| Drying Time                 | 4             | hrs  |
| Maximum Moisture Content    | 0.1           | %    |
| Melt Temperature            | 215 - 240     | °C   |
| Front - Zone 3 Temperature  | 225 - 240     | °C   |
| Middle - Zone 2 Temperature | 205 - 215     | °C   |
| Rear - Zone 1 Temperature   | 180 - 195     | °C   |
| Mold Temperature            | 25 - 55       | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |