



## LNP™ LUBRICOMP™ Compound OFL36A

### Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound OFL-4036

Product reorder name: OFL36A

LNP LUBRICOMP OFL36A is a compound based on PPS - Branched resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

| TYPICAL PROPERTIES <sup>1</sup>         | TYPICAL VALUE | Unit                | Standard    |
|-----------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                       |               |                     |             |
| Tensile Stress, break                   | 1470          | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, break                   | 1.7           | %                   | ASTM D 638  |
| Tensile Modulus, 50 mm/min              | 125800        | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress                         | 2030          | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus                        | 112400        | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, break                   | 124           | MPa                 | ISO 527     |
| Tensile Strain, break                   | 1.4           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min               | 11100         | MPa                 | ISO 527     |
| Flexural Stress                         | 197           | MPa                 | ISO 178     |
| Flexural Modulus                        | 10950         | MPa                 | ISO 178     |
| <b>IMPACT</b>                           |               |                     |             |
| Izod Impact, unnotched, 23°C            | 56            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C              | 8             | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Energy @ peak, 23°C | 34            | cm-kgf              | ASTM D 3763 |
| Multiaxial Impact                       | 20            | cm-kgf              | ISO 6603    |
| Izod Impact, unnotched 80*10*4 +23°C    | 26            | kJ/m <sup>2</sup>   | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C      | 9             | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                          |               |                     |             |
| HDT, 1.82 MPa, 3.2mm, unannealed        | 268           | °C                  | ASTM D 648  |
| CTE, -40°C to 40°C, flow                | 2.34E-05      | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, xflow               | 4.86E-05      | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, flow                | 2.36E-05      | 1/°C                | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow               | 5.01E-05      | 1/°C                | ISO 11359-2 |



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| TYPICAL PROPERTIES <sup>1</sup>       | TYPICAL VALUE | Unit                                            | Standard             |
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| <b>THERMAL</b>                        |               |                                                 |                      |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 266           | °C                                              | ISO 75/Af            |
| <b>PHYSICAL</b>                       |               |                                                 |                      |
| Density                               | 1.69          | g/cm <sup>3</sup>                               | ASTM D 792           |
| Mold Shrinkage, flow, 24 hrs (5)      | 0.1 - 0.2     | %                                               | ASTM D 955           |
| Mold Shrinkage, xflow, 24 hrs (5)     | 0.3 - 0.5     | %                                               | ASTM D 955           |
| Mold Shrinkage, flow, 24 hrs (5)      | 0.13 - 0.18   | %                                               | ISO 294              |
| Mold Shrinkage, xflow, 24 hrs (5)     | 0.3 - 0.48    | %                                               | ISO 294              |
| Wear Factor Washer                    | 33            | 10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr | ASTM D 3702 Modified |
| Dynamic COF                           | 0.44          | -                                               | ASTM D 3702 Modified |
| Static COF                            | 0.35          | -                                               | ASTM D 3702 Modified |
| Density                               | 1.69          | g/cm <sup>3</sup>                               | ISO 1183             |
| Moisture Absorption (23°C / 50% RH)   | 0.04          | %                                               | ISO 62               |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 120 - 150     | °C   |
| Drying Time                 | 4             | hrs  |
| Melt Temperature            | 315 - 320     | °C   |
| Front - Zone 3 Temperature  | 330 - 345     | °C   |
| Middle - Zone 2 Temperature | 320 - 330     | °C   |
| Rear - Zone 1 Temperature   | 305 - 315     | °C   |
| Mold Temperature            | 140 - 165     | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |