

# LNP™ LUBRICOMP™ COMPOUND CL001I

CL-4010 HI  
REGION AMERICAS

## DESCRIPTION

LNP\* LUBRICOMP\* CL001I is a compound based on Polystyrene resin containing 5% PTFE. Added features of this material include: Wear Resistant, High Impact.

## TYPICAL PROPERTY VALUES

Revision 20170816

| PROPERTIES                       | TYPICAL VALUES | UNITS             | TEST METHODS |
|----------------------------------|----------------|-------------------|--------------|
| <b>MECHANICAL</b>                |                |                   |              |
| Tensile Stress, break            | 20             | MPa               | ASTM D 638   |
| Tensile Strain, break            | 37             | %                 | ASTM D 638   |
| Tensile Modulus, 50 mm/min       | 1850           | MPa               | ASTM D 638   |
| Flexural Stress                  | 34             | MPa               | ASTM D 790   |
| <b>IMPACT</b>                    |                |                   |              |
| Izod Impact, unnotched, 23°C     | 801            | J/m               | ASTM D 4812  |
| Izod Impact, notched, 23°C       | 96             | J/m               | ASTM D 256   |
| <b>THERMAL</b>                   |                |                   |              |
| HDT, 1.82 MPa, 3.2mm, unannealed | 72             | °C                | ASTM D 648   |
| <b>PHYSICAL</b>                  |                |                   |              |
| Density                          | 1.06           | g/cm <sup>3</sup> | ASTM D 792   |
| Mold Shrinkage, flow, 24 hrs (5) | 0.6            | %                 | ASTM D 955   |
| <b>MECHANICAL PROPERTIES</b>     |                |                   |              |
| Flexural modulus                 | 1860           | MPa               | ISO 178/1A   |
| <b>INJECTION MOLDING</b>         |                |                   |              |
| Drying Temperature               | 80             | °C                |              |
| Drying Time                      | 4              | hrs               |              |
| Melt Temperature                 | 250            | °C                |              |
| Front - Zone 3 Temperature       | 265 – 275      | °C                |              |
| Middle - Zone 2 Temperature      | 245 – 255      | °C                |              |
| Rear - Zone 1 Temperature        | 220 – 230      | °C                |              |
| Mold Temperature                 | 40 – 65        | °C                |              |
| Back Pressure                    | 0.2 – 0.3      | MPa               |              |

| PROPERTIES  | TYPICAL VALUES | UNITS | TEST METHODS |
|-------------|----------------|-------|--------------|
| Screw Speed | 30 – 60        | rpm   |              |

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

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