

# LNPT<sup>™</sup> LUBRICOMP<sup>™</sup> COMPOUND AG5LT2

## DESCRIPTION

LNP LUBRICOMP AG5LT2 compound is based on Nylon 6/6 resin containing 25% glass fiber and 10% PTFE. Added features of this grade include: Wear Resistant.

### GENERAL INFORMATION

|                       |                         |
|-----------------------|-------------------------|
| Features              | Wear resistant          |
| Fillers               | Glass Fiber, PTFE       |
| Polymer Types         | Polyamide 66 (Nylon 66) |
| Processing Techniques | Injection Molding       |

### INDUSTRY

Building and Construction  
Consumer  
Electrical and Electronics  
Industrial

### SUB INDUSTRY

Building Component  
Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance  
Mobile Phone - Computer - Tablets  
Electrical

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                             | TYPICAL VALUES | UNITS                                          | TEST METHODS                |
|----------------------------------------|----------------|------------------------------------------------|-----------------------------|
| <b>MECHANICAL <sup>(1)</sup></b>       |                |                                                |                             |
| Tensile Stress, break, 5 mm/min        | 168            | MPa                                            | ISO 527                     |
| Tensile Strain, yield, 5 mm/min        | 3.4            | %                                              | ISO 527                     |
| Tensile Modulus, 1 mm/min              | 9500           | MPa                                            | ISO 527                     |
| Flexural Stress, break, 2 mm/min       | 234            | MPa                                            | ISO 178                     |
| Flexural Strain, break, 2 mm/min       | 3.7            | %                                              | ISO 178                     |
| Flexural Modulus, 2 mm/min             | 7900           | MPa                                            | ISO 178                     |
| <b>IMPACT <sup>(1)</sup></b>           |                |                                                |                             |
| Izod Impact, unnotched 80*10*4 +23°C   | 55             | 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 <sup>(1)</sup></b>          |                |                                                |                             |
| CTE, 23°C to 60°C, flow                | 2.5E-05        | 1/°C                                           | ISO 11359-2                 |
| CTE, 23°C to 60°C, xflow               | 9.9E-05        | 1/°C                                           | ISO 11359-2                 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 259            | °C                                             | ISO 75/Bf                   |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 246            | °C                                             | ISO 75/Af                   |
| <b>PHYSICAL <sup>(1)</sup></b>         |                |                                                |                             |
| Mold Shrinkage, flow <sup>(2)</sup>    | 0.2 – 0.4      | %                                              | SABIC method                |
| Wear Factor Washer                     | 11             | 10 <sup>-4</sup> in <sup>3</sup> /min/ft-lb-hr | ASTM D3702 Modified: Instr. |
| Dynamic COF                            | 0.42           | -                                              | ASTM D3702 Modified: Instr. |
| Static COF                             | 0.35           | -                                              | ASTM D3702 Modified: Instr. |
| Density                                | 1.4            | g/cm <sup>3</sup>                              | ISO 1183                    |
| Water Absorption, (23°C/24hrs)         | 0.74           | %                                              | ISO 62-1                    |

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CHEMISTRY THAT MATTERS<sup>™</sup>

| PROPERTIES                       | TYPICAL VALUES | UNITS | TEST METHODS |
|----------------------------------|----------------|-------|--------------|
| INJECTION MOLDING <sup>(3)</sup> |                |       |              |
| 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   |              |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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