

# LNP<sup>TM</sup> THERMOCOMP<sup>TM</sup> COMPOUND UF00AAS

## DESCRIPTION

LNP THERMOCOMP UF00AAS is a compound based on Polyphthalamide resin containing Glass Fiber. Added features include: Heat Stabilized.

## TYPICAL PROPERTY VALUES

Revision 20191212

| PROPERTIES                            | TYPICAL VALUES | UNITS             | TEST METHODS |
|---------------------------------------|----------------|-------------------|--------------|
| <b>MECHANICAL</b>                     |                |                   |              |
| Tensile Stress, yield, 5 mm/min       | 234            | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min       | 1.6            | %                 | ISO 527      |
| Flexural Stress, yield, 2 mm/min      | 365            | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min            | 14800          | MPa               | ISO 178      |
| <b>IMPACT</b>                         |                |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C  | 65             | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C    | 12             | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL</b>                        |                |                   |              |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 269            | °C                | ISO 75/Af    |
| <b>PHYSICAL</b>                       |                |                   |              |
| Mold Shrinkage, flow                  | 0.1 – 0.3      | %                 | SABIC method |
| Density                               | 1.63           | g/cm <sup>3</sup> | ISO 1183     |
| <b>INJECTION MOLDING</b>              |                |                   |              |
| Drying Temperature                    | 120 – 150      | °C                |              |
| Drying Time                           | 4              | hrs               |              |
| Maximum Moisture Content              | 0.15           | %                 |              |
| Melt Temperature                      | 315 – 330      | °C                |              |
| Front - Zone 3 Temperature            | 325 – 340      | °C                |              |
| Middle - Zone 2 Temperature           | 315 – 325      | °C                |              |
| Rear - Zone 1 Temperature             | 310 – 320      | °C                |              |
| Mold Temperature                      | 140 – 165      | °C                |              |
| Back Pressure                         | 0.2 – 0.3      | MPa               |              |
| Screw Speed                           | 30 – 60        | rpm               |              |

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