

**Product Texts**

LNP THERMOCOMP PF00ASXS compound is based on Nylon 6 resin containing 50% glass fiber. Added features of this grade include: Heat Stabilized.

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 14000 | MPa               | ISO 527       |
| Stress at break                          | 224   | MPa               | ISO 527       |
| Strain at break                          | 3.2   | %                 | ISO 527       |
| Flexural modulus                         | 13200 | MPa               | ISO 178       |
| Charpy impact strength, +23°C            | 100   | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy impact strength, -30°C            | 100   | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C    | 18    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength, -30°C    | 15    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact strength, +23°C, 4mm         | 94    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod impact strength, -30°C, 4mm         | 90    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 18    | kJ/m <sup>2</sup> | ISO 180/1A    |
| Izod notched impact strength, -30°C, 4mm | 15    | kJ/m <sup>2</sup> | ISO 180/1A    |
| Rockwell hardness                        | R 122 | -                 | ISO 2039-2    |

| Thermal properties                          | Value | Unit  | Test Standard  |
|---|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Vicat softening temperature, B              | 218   | °C    | ISO 306        |
| Vicat softening temperature, 120°C/h 50N    | 215   | °C    | ISO 306        |
| Coeff. of linear therm. expansion, parallel | 12    | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal   | 83    | E-6/K | ISO 11359-1/-2 |

| Electrical properties       | Value | Unit  | Test Standard |
|-----------------------------|-------|-------|---------------|
| <b>ISO Data</b>             |       |       |               |
| Relative permittivity, 1MHz | 3.4   | -     | IEC 62631-2-1 |
| Dissipation factor, 1MHz    | 160   | E-4   | IEC 62631-2-1 |
| Volume resistivity          | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity         | >1E15 | Ohm   | IEC 62631-3-2 |
| Comparative tracking index  | 500   | -     | IEC 60112     |

| Other properties    | Value | Unit              | Test Standard  |
|---------------------|-------|-------------------|----------------|
| Water absorption    | 4.5   | %                 | Sim. to ISO 62 |
| Humidity absorption | 0.6   | %                 | Sim. to ISO 62 |
| Density             | 1570  | kg/m <sup>3</sup> | ISO 1183       |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 75 - 85   | °C   | -             |
| Pre-drying - Time                           | 4 - 6     | h    | -             |
| Processing humidity                         | ≤0.2      | %    | -             |
| Melt temperature                            | 250 - 280 | °C   | -             |
| Mold temperature                            | 70 - 120  | °C   | -             |
| Feed temperature                            | 60 - 80   | °C   | -             |
| Zone 1                                      | 250 - 280 | °C   | -             |
| Zone 2                                      | 250 - 280 | °C   | -             |
| Zone 3                                      | 250 - 280 | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe