

**Product Texts**

LNP THERMOCOMP AF006XXZ compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 30% glass fiber.

UL Yellow Card Link [E121562-101552413](https://www.ul.com/yellowcard/E121562-101552413)

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.2   | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.4   | mm/mm | ASTM D 955    |

| Mechanical properties                    | Value | Unit              | Test Standard |
|------------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Stress at break                          | 83    | MPa               | ISO 527       |
| Strain at break                          | 1.7   | %                 | ISO 527       |
| Flexural modulus                         | 8000  | MPa               | ISO 178       |
| Flexural strength                        | 119   | MPa               | ISO 178       |
| Izod notched impact strength, +23°C, 4mm | 7     | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Strength at Break                | 96    | MPa               | ASTM D 638    |
| Elongation at Break                      | 1.8   | %                 | ASTM D 638    |
| Flexural Modulus                         | 9170  | MPa               | ASTM D 790    |
| Flexural Strength                        | 153   | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 58    | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 283   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|------------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 102   | °C    | ISO 75-1/-2     |
| Burning behav. at 1.5 mm nom. thickn.    | HB    | class | IEC 60695-11-10 |
| Thickness tested                         | 1.5   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| DTUL @ 264 psi                           | 102   | °C    | ASTM D 648      |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1280  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.1      | %    | -             |
| Melt temperature                            | 260       | °C   | -             |
| Mold temperature                            | 70 - 80   | °C   | -             |
| Zone 1                                      | 205 - 215 | °C   | -             |
| Zone 2                                      | 230 - 245 | °C   | -             |
| Zone 3                                      | 265 - 275 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 0.2 - 0.3 | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America