

**Product Texts**

LNP THERMOCOMP DF006P compound is based on Polycarbonate (PC) resin containing 30% glass fiber. Added features of this grade include: Exceptional Processing.

UL Yellow Card Link [E121562-101284106](https://www.ulprospector.com/121562-101284106)

| Processing/Physical Characteristics | Value | Unit  | Test Standard   |
|-------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                     |       |       |                 |
| Molding shrinkage, parallel         | 0.1   | %     | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 0.5   | %     | ISO 294-4, 2577 |
| <b>ASTM Data</b>                    |       |       |                 |
| Mold Shrinkage, MD                  | 0.15  | mm/mm | ASTM D 955      |
| Mold Shrinkage, TD                  | 0.67  | mm/mm | ASTM D 955      |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 10000 | MPa               | ISO 527       |
| Yield stress                             | 125   | MPa               | ISO 527       |
| Stress at break                          | 125   | MPa               | ISO 527       |
| Izod impact strength, +23°C, 4mm         | 47    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 10    | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 10480 | MPa               | ASTM D 638    |
| Tensile Strength at Yield                | 124   | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 124   | MPa               | ASTM D 638    |
| Elongation at Yield                      | 2.4   | %                 | ASTM D 638    |
| Elongation at Break                      | 2.4   | %                 | ASTM D 638    |
| Flexural Modulus                         | 8720  | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 112   | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 774   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 134   | °C    | ISO 75-1/-2     |
| Burning behav. at 1.5 mm nom. thickn.    | V-2   | class | IEC 60695-11-10 |
| Thickness tested                         | 1.5   | mm    | -               |
| Burning behav. at thickness h            | V-0   | class | IEC 60695-11-10 |
| Thickness tested                         | 3.0   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| DTUL @ 66 psi                            | 134   | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 131   | °C    | ASTM D 648      |

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| Density                | 1420  | kg/m <sup>3</sup> | ISO 1183      |
| Water Absorption, 24hr | 0.1   | %                 | ASTM D 570    |
| Density                | 1420  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 305 - 325 | °C   | -             |
| Mold temperature                            | 80 - 110  | °C   | -             |
| Zone 1                                      | 295 - 305 | °C   | -             |
| Zone 2                                      | 310 - 320 | °C   | -             |
| Zone 3                                      | 320 - 330 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 0.2 - 0.3 | MPa  | -             |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific