

Product Texts

LNP THERMOCOMP DF006ER compound is based on Polycarbonate (PC) resin containing 30% glass fiber. Added features of this grade include: Easy Molding, Mold Release.

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

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

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 9000 | MPa | ISO 527 |
| Stress at break | 125 | MPa | ISO 527 |
| Strain at break | 2.2 | % | ISO 527 |
| Flexural modulus | 7800 | MPa | ISO 178 |
| Flexural strength | 185 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 60 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 13 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 9500 | MPa | ASTM D 638 |
| Tensile Strength at Break | 132 | MPa | ASTM D 638 |
| Elongation at Break | 2.7 | % | ASTM D 638 |
| Flexural Modulus | 8400 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 133 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 865 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 140 | °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 | - |
| ASTM Data | | | |
| DTUL @ 264 psi | 136 | °C | ASTM D 648 |

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