

Product Texts

LNP THERMOCOMP RF002SXS compound is based on Nylon 6/6 resin containing 10% glass fiber. Added features of this grade include: Heat Stabilized.

UL Yellow Card Link [E121562-101281586](https://www.ul.com/yellow-card-link/E121562-101281586)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 1.45 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 2 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 5430 | MPa | ISO 527 |
| Stress at break | 87 | MPa | ISO 527 |
| Strain at break | 1.8 | % | ISO 527 |
| Flexural modulus | 4480 | MPa | ISO 178 |
| Flexural strength | 135 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 21 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 3 | kJ/m ² | ISO 180/1A |

| | | | |
|-------------------------------|------|-----|------------|
| ASTM Data | | | |
| Tensile Modulus | 5440 | MPa | ASTM D 638 |
| Tensile Strength at Break | 95 | MPa | ASTM D 638 |
| Elongation at Break | 2 | % | ASTM D 638 |
| Flexural Modulus | 4340 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 30 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 285 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 221 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 252 | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| ASTM Data | | | |
| Coefficient of Thermal Expansion, MD | 41 | E-6/K | ASTM D 696 |
| Coefficient of Thermal Expansion, TD | 82.1 | E-6/K | ASTM D 696 |
| DTUL @ 66 psi | 256 | °C | ASTM D 648 |
| DTUL @ 264 psi | 238 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|----------------|
| Humidity absorption | 1.2 | % | Sim. to ISO 62 |
| Density | 1220 | kg/m ³ | ISO 1183 |
| Water Absorption, 24hr | 0.86 | % | ASTM D 570 |
| Density | 1220 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.25 | % | - |
| Melt temperature | 280 - 305 | °C | - |
| Mold temperature | 95 - 110 | °C | - |
| Zone 1 | 265 - 275 | °C | - |
| Zone 2 | 280 - 295 | °C | - |
| Zone 3 | 295 - 305 | °C | - |
| Screw speed | 30 - 60 | rpm | - |
| Back pressure | 0.2 - 0.3 | MPa | - |

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific