

Product Texts

LNP THERMOCOMP RFB71S compound is based on Nylon 6/6 resin containing 5% glass fiber, 35% glass bead. Added features of this grade include: Heat Stabilized.

UL Yellow Card Link [E45329-101282594](https://www.ulprospector.com/PA66/PA66-(GF+GB)/E45329-101282594)

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 5800 | MPa | ISO 527 |
| Stress at break | 99 | MPa | ISO 527 |
| Strain at break | 3.3 | % | ISO 527 |
| Flexural modulus | 5000 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 25 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 4 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 137 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 243 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 52 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 73 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1450 | kg/m ³ | ISO 1183 |

| 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