

Product Texts

LNP THERMOCOMP SC004 compound is based on Nylon 12 resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive.

| Mechanical properties | Value | Unit | Test Standard |
|--|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 10300 | MPa | ISO 527 |
| Stress at break | 130 | MPa | ISO 527 |
| Strain at break | 3 | % | ISO 527 |
| Flexural modulus | 7900 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 50 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 14 | kJ/m ² | ISO 180/1A |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| Surface Resistivity | 10000 | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1110 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Pre-drying - Temperature | 100 - 105 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 260 - 280 | °C | - |
| Mold temperature | 60 - 85 | °C | - |
| Feed temperature | 40 - 60 | °C | - |
| Zone 1 | 240 - 260 | °C | - |
| Zone 2 | 250 - 270 | °C | - |
| Zone 3 | 260 - 280 | °C | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific