

Product Texts

LNP THERMOCOMP EX06430H compound is based on Polyetherimide (PEI) resin containing mineral. Added features of this grade include: Healthcare, X-Ray Detectable.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.7 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.8 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 3500 | MPa | ISO 527 |
| Yield stress | 106 | MPa | ISO 527 |
| Yield strain | 6 | % | ISO 527 |
| Stress at break | 90 | MPa | ISO 527 |
| Strain at break | 10.8 | % | ISO 527 |
| Flexural modulus | 3500 | MPa | ISO 178 |
| Flexural strength | 133 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 73 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 5 | kJ/m ² | ISO 180/1A |

| ASTM Data | | | |
|-------------------------------|------|-----|------------|
| Tensile Modulus | 3660 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 110 | MPa | ASTM D 638 |
| Tensile Strength at Break | 90 | MPa | ASTM D 638 |
| Elongation at Yield | 6.7 | % | ASTM D 638 |
| Elongation at Break | 13.5 | % | ASTM D 638 |
| Flexural Modulus | 3660 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 48 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 1380 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 194 | °C | ISO 75-1/-2 |
| ASTM Data | | | |
| DTUL @ 264 psi | 195 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1400 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 150 | °C | - |
| Pre-drying - Time | 4 - 6 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 360 - 400 | °C | - |
| Mold temperature | 140 - 180 | °C | - |
| Zone 1 | 360 - 380 | °C | - |
| Zone 2 | 370 - 390 | °C | - |
| Zone 3 | 380 - 400 | °C | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific