

Product Texts

LNP STAT-KON EX99689C compound is based on Polyetherimide (PEI) resin containing 10% carbon fiber. Added features of this grade include: LNP Clean Compounding Technology, Electrically Conductive.

UL Yellow Card Link [E207780-101345237](https://www.ul.com/yellow-card/E207780-101345237)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.2 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.4 | % | ISO 294-4, 2577 |
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.2 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.4 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 12600 | MPa | ISO 527 |
| Stress at break | 137 | MPa | ISO 527 |
| Strain at break | 1.2 | % | ISO 527 |
| Flexural modulus | 7700 | MPa | ISO 178 |
| Flexural strength | 216 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 28 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 5 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 11650 | MPa | ASTM D 638 |
| Tensile Strength at Break | 161 | MPa | ASTM D 638 |
| Elongation at Break | 1.6 | % | ASTM D 638 |
| Flexural Modulus | 8000 | MPa | ASTM D 790 |
| Flexural Strength | 241 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 53 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 448 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 207 | °C | ISO 75-1/-2 |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.3 | mm | - |
| ASTM Data | | | |
| DTUL @ 264 psi | 205 | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|---------|------|---------------|
| ASTM Data | | | |
| Surface Resistivity | 1000000 | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|----------------|
| Humidity absorption | 0.35 | % | Sim. to ISO 62 |
| Water Absorption, 24hr | 0.3 | % | ASTM D 570 |
| Density | 1310 | 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

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Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity