

**Product Texts**

LNP STAT-KON DX11408 compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Improved Ductility, meet ATEX requirements.

UL Yellow Card Link [E121562-101212124](https://www.ul.com/yellow-card-link/E121562-101212124)

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.8   | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 1.45  | mm/mm | ASTM D 955    |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 2630  | MPa               | ISO 527       |
| Yield stress                             | 55    | MPa               | ISO 527       |
| Yield strain                             | 4.6   | %                 | ISO 527       |
| Stress at break                          | 48    | MPa               | ISO 527       |
| Strain at break                          | 16    | %                 | ISO 527       |
| Flexural modulus                         | 2480  | MPa               | ISO 178       |
| Flexural strength                        | 88    | MPa               | ISO 178       |
| Izod notched impact strength, +23°C, 4mm | 21    | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 2590  | MPa               | ASTM D 638    |
| Tensile Strength at Yield                | 56    | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 48    | MPa               | ASTM D 638    |
| Elongation at Yield                      | 4.7   | %                 | ASTM D 638    |
| Elongation at Break                      | 22    | %                 | ASTM D 638    |
| Flexural Modulus                         | 2680  | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 337   | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 940   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 127   | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa | 136   | °C    | ISO 75-1/-2     |
| Burning behav. at thickness h            | HB    | class | IEC 60695-11-10 |
| Thickness tested                         | 0.8   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| Coefficient of Thermal Expansion, MD     | 61.9  | E-6/K | ASTM D 696      |
| Coefficient of Thermal Expansion, TD     | 6520  | E-6/K | ASTM D 696      |
| DTUL @ 66 psi                            | 137   | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 130   | °C    | ASTM D 648      |

| Electrical properties | Value   | Unit   | Test Standard |
|-----------------------|---------|--------|---------------|
| <b>ASTM Data</b>      |         |        |               |
| Surface Resistivity   | 1000000 | Ohm    | ASTM D 257    |
| Volume Resistivity    | 1000000 | Ohm*cm | ASTM D 257    |

| Other properties       | Value | Unit              | Test Standard  |
|------------------------|-------|-------------------|----------------|
| Humidity absorption    | 0.19  | %                 | Sim. to ISO 62 |
| Water Absorption, 24hr | 0.12  | %                 | ASTM D 570     |
| Density                | 1250  | kg/m <sup>3</sup> | ASTM D 792     |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 305 - 325 | °C   | -             |

|                  |                  |     |   |
|------------------|------------------|-----|---|
| Mold temperature | <b>80 - 110</b>  | °C  | - |
| Zone 1           | <b>295 - 305</b> | °C  | - |
| Zone 2           | <b>310 - 320</b> | °C  | - |
| Zone 3           | <b>320 - 330</b> | °C  | - |
| Screw speed      | <b>30 - 60</b>   | rpm | - |
| Back pressure    | <b>0.2 - 0.3</b> | MPa | - |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity