

**Product Texts**

LNP STAT-KON DD0001 compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Non-Brominated, Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-101345252](https://www.ul.com/yellow-card/E207780-101345252)

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

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 3750  | MPa               | ISO 527       |
| Stress at break                          | 64    | MPa               | ISO 527       |
| Strain at break                          | 3.2   | %                 | ISO 527       |
| Flexural modulus                         | 3520  | MPa               | ISO 178       |
| Flexural strength                        | 103   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 36    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 2     | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 3450  | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 64    | MPa               | ASTM D 638    |
| Elongation at Break                      | 3.6   | %                 | ASTM D 638    |
| Flexural Modulus                         | 3510  | MPa               | ASTM D 790    |
| Flexural Strength                        | 116   | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 23    | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 550   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Temp. of deflection under load, 1.80 MPa | 82    | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa | 88    | °C    | ISO 75-1/-2     |
| Burning behav. at thickness h            | V-1   | class | IEC 60695-11-10 |
| Thickness tested                         | 2.3   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| DTUL @ 66 psi                            | 86    | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 82    | °C    | ASTM D 648      |

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

| Other properties       | Value | Unit              | Test Standard  |
|------------------------|-------|-------------------|----------------|
| Humidity absorption    | 0.14  | %                 | Sim. to ISO 62 |
| Water Absorption, 24hr | 0.1   | %                 | ASTM D 570     |
| Density                | 1280  | kg/m <sup>3</sup> | ASTM D 792     |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 4 - 6     | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 255 - 290 | °C   | -             |
| Mold temperature                            | 40 - 65   | °C   | -             |
| Zone 1                                      | 250 - 260 | °C   | -             |

|               |                  |     |   |
|---------------|------------------|-----|---|
| Zone 2        | <b>255 - 265</b> | °C  | - |
| Zone 3        | <b>260 - 270</b> | °C  | - |
| Screw speed   | <b>30 - 60</b>   | rpm | - |
| Back pressure | <b>0.2 - 0.3</b> | MPa | - |

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific