

**Product Texts**

LNP STAT-KON RFD03 compound is based on Nylon 6/6 resin containing conductive carbon powder and 15% glass fiber. Added features of this grade include: Electrically Conductive.

| Mechanical properties                    | Value       | Unit              | Test Standard |
|--|-------------|-------------------|---------------|
| <b>ISO Data</b>                          |             |                   |               |
| Tensile Modulus                          | <b>8010</b> | MPa               | ISO 527       |
| Yield stress                             | <b>90</b>   | MPa               | ISO 527       |
| Yield strain                             | <b>1.2</b>  | %                 | ISO 527       |
| Stress at break                          | <b>90</b>   | MPa               | ISO 527       |
| Strain at break                          | <b>1.2</b>  | %                 | ISO 527       |
| Flexural modulus                         | <b>6600</b> | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | <b>20</b>   | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | <b>5</b>    | kJ/m <sup>2</sup> | ISO 180/1A    |

| Thermal properties                          | Value      | Unit  | Test Standard  |
|---|------------|-------|----------------|
| <b>ISO Data</b>                             |            |       |                |
| Temp. of deflection under load, 1.80 MPa    | <b>245</b> | °C    | ISO 75-1/-2    |
| Temp. of deflection under load, 0.45 MPa    | <b>258</b> | °C    | ISO 75-1/-2    |
| Coeff. of linear therm. expansion, parallel | <b>44</b>  | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal   | <b>83</b>  | E-6/K | ISO 11359-1/-2 |

| Electrical properties | Value         | Unit | Test Standard |
|-----------------------|---------------|------|---------------|
| <b>ASTM Data</b>      |               |      |               |
| Surface Resistivity   | <b>100000</b> | Ohm  | ASTM D 257    |

| Other properties | Value       | Unit              | Test Standard |
|------------------|-------------|-------------------|---------------|
| Density          | <b>1340</b> | kg/m <sup>3</sup> | ISO 1183      |

| Processing Recommendation Injection Molding | Value            | Unit | Test Standard |
|---|------------------|------|---------------|
| Pre-drying - Temperature                    | <b>80</b>        | °C   | -             |
| Pre-drying - Time                           | <b>4</b>         | h    | -             |
| Processing humidity                         | <b>≤0.25</b>     | %    | -             |
| Melt temperature                            | <b>280 - 305</b> | °C   | -             |
| Mold temperature                            | <b>95 - 110</b>  | °C   | -             |
| Zone 1                                      | <b>265 - 275</b> | °C   | -             |
| Zone 2                                      | <b>280 - 295</b> | °C   | -             |
| Zone 3                                      | <b>295 - 305</b> | °C   | -             |
| Screw speed                                 | <b>30 - 60</b>   | rpm  | -             |
| Back pressure                               | <b>0.2 - 0.3</b> | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe

**Special Characteristics**

Increased electrical conductivity