

**Product Texts**

LNP STAT-KON RE003 compound is based on Nylon 6/6 resin containing 15% carbon fiber. Added features of this grade include: Electrically Conductive.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.2</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.7</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.25</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.75</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>11200</b>	MPa	ISO 527
Stress at break	<b>180</b>	MPa	ISO 527
Strain at break	<b>2.4</b>	%	ISO 527
Flexural modulus	<b>10600</b>	MPa	ISO 178
Flexural strength	<b>287</b>	MPa	ISO 178
Izod impact strength, +23°C, 4mm	<b>35</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
<b>ASTM Data</b>			
Tensile Modulus	<b>11720</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>201</b>	MPa	ASTM D 638
Elongation at Break	<b>2.6</b>	%	ASTM D 638
Flexural Modulus	<b>11260</b>	MPa	ASTM D 790
Flexural Strength	<b>302</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>64</b>	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	<b>432</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<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>260</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>260</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>250</b>	°C	ASTM D 648

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

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>1.47</b>	%	Sim. to ISO 62
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	<b>0.93</b>	%	ASTM D 570
Density	<b>1200</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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

**0.2 - 0.3**

MPa

-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Special Characteristics**

Increased electrical conductivity