

**Product Texts**

LNP STAT-KON\* RFD04 is a compound based on Nylon 66 resin containing 20% Glass Fiber. Added features of this material 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	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	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	8780	MPa	ISO 527
Stress at break	119	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	8170	MPa	ISO 178
Flexural strength	185	MPa	ISO 178
Izod impact strength, +23°C	20	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	9200	MPa	ASTM D 638
Tensile Strength at Break	124	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	8540	MPa	ASTM D 790
Izod Impact notched, 1/8 in	36	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	301	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	242	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	257	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	34	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	61	E-6/K	ASTM D 696
DTUL @ 66 psi	259	°C	ASTM D 648
DTUL @ 264 psi	248	°C	ASTM D 648

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	1E7	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.75	%	Sim. to ISO 62
Density	1390	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.5	%	ASTM D 570
Density	1400	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	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-

**LNP™ STAT-KON™ Compound RFD04**

PA66-GF20

Saudi Basic Industries Corporation (SABIC)

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