

**Product Texts**

LNP STAT-KON RE0039 compound is based on Nylon 6/6 resin containing 15% carbon fiber. Added features of this grade include: Electrically Conductive, Flame Retardant.

UL Yellow Card Link [E121562-101282582](https://www.ulprospector.com/121562-101282582)

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

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	15600	MPa	ISO 527
Stress at break	209	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	14200	MPa	ISO 178
Flexural strength	318	MPa	ISO 178
Izod impact strength, +23°C, 4mm	46	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	17580	MPa	ASTM D 638
Tensile Strength at Break	205	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	11440	MPa	ASTM D 790
Flexural Strength	297	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	704	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	228	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	247	°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	0.87	%	Sim. to ISO 62
Water Absorption, 24hr	0.55	%	ASTM D 570
Density	1440	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	h	-
Processing humidity	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°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

**Additives**

Flame retarding agent

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific