

**Product Texts**

LNP\* STAT-KON\* KE002 is a compound based on Acetal resin containing 10% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.02	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	7900	MPa	ISO 527
Stress at break	104	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus, 23°C	7000	MPa	ISO 178
Flexural strength	154	MPa	ISO 178
Izod impact strength, +23°C	20	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Strength at Break	106	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	374	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	158	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	31	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	115	E-6/K	ISO 11359-1/-2

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

Other properties	Value	Unit	Test Standard
Density	1420	kg/m <sup>3</sup>	ISO 1183
Density	1430	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	-
Melt temperature	200 - 215	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	175 - 190	°C	-
Zone 2	195 - 205	°C	-
Zone 3	210 - 220	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Increased electrical conductivity

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America