

**Product Texts**

LNP STAT-KON DD0001I compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Non-Brominated, Non-Chlorinated Flame Retardant, High Impact, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3490	MPa	ISO 527
Yield stress	64	MPa	ISO 527
Yield strain	3.5	%	ISO 527
Stress at break	52	MPa	ISO 527
Strain at break	8	%	ISO 527
Flexural modulus	3420	MPa	ISO 178
Flexural strength	109	MPa	ISO 178
Izod impact strength, +23°C, 4mm	62	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	3600	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	3.6	%	ASTM D 638
Elongation at Break	13	%	ASTM D 638
Flexural Modulus	3700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	46	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1150	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	83	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	91	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	59	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	59.9	E-6/K	ASTM D 696
DTUL @ 66 psi	91	°C	ASTM D 648
DTUL @ 264 psi	84	°C	ASTM D 648

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

Other properties	Value	Unit	Test Standard
Humidity absorption	0.12	%	Sim. to ISO 62
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1280	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 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	255 - 290	°C	-
Mold temperature	40 - 65	°C	-
Zone 1	250 - 260	°C	-
Zone 2	255 - 265	°C	-
Zone 3	260 - 270	°C	-

**LNP™ STAT-KON™ Compound DD0001I**

PC-CD

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

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Additives**

Flame retarding agent

**Regional Availability**

North America, Europe, Asia Pacific