

Product Texts

LNP STAT-KON DD0009PC compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Exceptional Processing, Flame Retardant.

UL Yellow Card Link [E207780-101345222](https://www.ul.com/yellow-card/E207780-101345222)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	4.6	%	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	11	%	ISO 527
Flexural modulus	2900	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2620	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	53	MPa	ASTM D 638
Elongation at Yield	4.9	%	ASTM D 638
Elongation at Break	11	%	ASTM D 638
Flexural Modulus	2820	MPa	ASTM D 790
Flexural Strength	101	MPa	ASTM D 790
Izod Impact notched, 1/8 in	119	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2100	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-1	class	IEC 60695-11-10
Burning behav. at thickness h Thickness tested	V-0	class	IEC 60695-11-10
ASTM Data			
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	128	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.23	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1290	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-

Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	270 - 295	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	250 - 270	°C	-
Zone 2	260 - 280	°C	-
Zone 3	270 - 295	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Increased electrical conductivity, Flame retardant

Regional Availability

North America, Europe, Asia Pacific