

Product Texts

LNP STAT-KON DD0009E compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Flame Retardant, Easy Molding.

UL Yellow Card Link [E121562-101344530](https://www.ul.com/yellow-card/E121562-101344530)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3050	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	4.3	%	ISO 527
Strain at break	8.6	%	ISO 527
Flexural modulus	2890	MPa	ISO 178
Flexural strength	105	MPa	ISO 178
Izod impact strength, +23°C, 4mm	99	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3050	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	61	MPa	ASTM D 638
Elongation at Yield	3.8	%	ASTM D 638
Elongation at Break	4.1	%	ASTM D 638
Flexural Modulus	3050	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2000	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	7	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	7	E-6/K	ASTM D 696
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	130	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.24	%	Sim. to ISO 62
Density	1320	kg/m ³	ISO 1183
Water Absorption, 24hr	0.16	%	ASTM D 570
Density	1320	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-

Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America