

Product Texts

LNP STAT-KON DD0009 compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Flame Retardant.

UL Yellow Card Link [E45329-101283865](https://www.ul.com/yellow-card/E45329-101283865)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	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	2810	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	4.1	%	ISO 527
Stress at break	57	MPa	ISO 527
Strain at break	7.5	%	ISO 527
Flexural modulus	2880	MPa	ISO 178
Flexural strength	102	MPa	ISO 178
Izod impact strength, +23°C, 4mm	70	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2820	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	1.2	%	ASTM D 638
Elongation at Break	5.6	%	ASTM D 638
Flexural Modulus	2820	MPa	ASTM D 790
Flexural Strength	108	MPa	ASTM D 790
Izod Impact notched, 1/8 in	68	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1560	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	131	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
ASTM Data			
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E10	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.27	%	Sim. to ISO 62
Water Absorption, 24hr	0.18	%	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	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	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific