

Product Texts

LNP STAT-KON DE002ER compound is based on Polycarbonate (PC) resin containing 10% carbon fiber. Added features of this grade include: Easy Molding, Mold Release, Electrically Conductive.

UL Yellow Card Link [E207780-101284262](https://www.ulprospector.com/PC/properties/101284262)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6800	MPa	ISO 527
Stress at break	102	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	6960	MPa	ISO 178
Flexural strength	170	MPa	ISO 178
Izod impact strength, +23°C, 4mm	39	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6960	MPa	ASTM D 638
Tensile Strength at Break	100	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	6130	MPa	ASTM D 790
Flexural Strength	165	MPa	ASTM D 790
Izod Impact notched, 1/8 in	95	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	563	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	142	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.4	mm	-
ASTM Data			
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	141	°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	0.66	%	Sim. to ISO 62
Density	1230	kg/m ³	ISO 1183
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1230	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

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity