

Product Texts

LNP STAT-KON DX98477 compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E121562-103483228](https://www.ul.com/yellow-card/E121562-103483228)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	4.7	%	ISO 527
Stress at break	46	MPa	ISO 527
Strain at break	21.4	%	ISO 527
Flexural modulus	2720	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Izod impact strength, +23°C, 4mm	234	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2790	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	4.8	%	ASTM D 638
Elongation at Break	21.2	%	ASTM D 638
Flexural Modulus	2890	MPa	ASTM D 790
Izod Impact notched, 1/8 in	87	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2330	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	132	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	142	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.8	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	67	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	66.1	E-6/K	ASTM D 696
DTUL @ 66 psi	142	°C	ASTM D 648
DTUL @ 264 psi	133	°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	0.24	%	Sim. to ISO 62
Water Absorption, 24hr	0.16	%	ASTM D 570
Density	1250	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