

**Product Texts**

LNP STAT-KON DX05499 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 [E207780-103093671](https://www.ul.com/yellow-card/E207780-103093671)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2800	MPa	ISO 527
Yield stress	64	MPa	ISO 527
Yield strain	4.3	%	ISO 527
Stress at break	53	MPa	ISO 527
Strain at break	12.6	%	ISO 527
Flexural modulus	3100	MPa	ISO 178
Flexural strength	108	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2750	MPa	ASTM D 638
Tensile Strength at Yield	67	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	4.6	%	ASTM D 638
Elongation at Break	8.3	%	ASTM D 638
Flexural Modulus	3230	MPa	ASTM D 790
Flexural Strength	101	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2350	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	122	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1E9	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.19	%	Sim. to ISO 62
Water Absorption, 24hr	0.11	%	ASTM D 570
Density	1340	kg/m <sup>3</sup>	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	<b>305 - 325</b>	°C	-
Mold temperature	<b>80 - 110</b>	°C	-
Zone 1	<b>295 - 305</b>	°C	-
Zone 2	<b>310 - 320</b>	°C	-
Zone 3	<b>320 - 330</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Increased electrical conductivity, Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific