

Product Texts

LNP STAT-KON DE0049F compound is based on Polycarbonate (PC) resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive, Flame Retardant, Superior Molding.

UL Yellow Card Link [E121562-101283793](https://www.ul.com/yellowcard/E121562-101283793)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15000	MPa	ISO 527
Yield stress	134	MPa	ISO 527
Yield strain	1.6	%	ISO 527
Stress at break	134	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	11700	MPa	ISO 178
Izod impact strength, +23°C, 4mm	29	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13420	MPa	ASTM D 638
Tensile Strength at Yield	137	MPa	ASTM D 638
Tensile Strength at Break	137	MPa	ASTM D 638
Elongation at Yield	1.9	%	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	11550	MPa	ASTM D 790
Izod Impact notched, 1/8 in	47	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	488	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	144	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	148	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	12.3	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	67.9	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	146	°C	ASTM D 648
DTUL @ 264 psi	143	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1330	kg/m ³	ISO 1183
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1330	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

Additives

Flame retarding agent

Special Characteristics

Increased electrical conductivity, Flame retardant

Regional Availability

North America, Europe, Asia Pacific