

Product Texts

LNP STAT-KON DD000XI compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Improved Impact, Hydrolytic Stability, meet ATEX requirements.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus	2300	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, +23°C, 3mm	24	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2550	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	45	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	12	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	230	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	129	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, B	145	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	139	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	145	°C	ASTM D 1525

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

Other properties	Value	Unit	Test Standard
Humidity absorption	0.09	%	Sim. to ISO 62
Density	1210	kg/m ³	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1210	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	295 - 335	°C	-
Mold temperature	70 - 95	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	275 - 315	°C	-
Zone 2	285 - 325	°C	-
Zone 3	295 - 335	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity

Chemical Resistance

Hydrolytically Stable

Regional Availability

North America, Europe, Asia Pacific