

Product Texts

LNP STAT-KON DJ000IXX3 is a static dissipative CNT compound based on Polycarbonate Copolymer, having an outstanding low temperature impact strength combined with excellent processing properties. This material has a fit in a broad range of markets, including electronics, mobility and industrial.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	5	kg	-
ASTM Data			
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	5.5	%	ISO 527
Nominal strain at break	10	%	ISO 527
Stress at break	50	MPa	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	93	MPa	ISO 178
Charpy notched impact strength, +23°C	60	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	17	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	70	kJ/m ²	ISO 180/1A
Izod notched impact strength	49	kJ/m ²	ISO 180/1A
Temperature	-10	°C	-
ASTM Data			
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Flexural Modulus	2700	MPa	ASTM D 790
Flexural Strength	93	MPa	ASTM D 790
Izod Impact notched, 1/8 in	720	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	170	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, A	152	°C	ISO 306
Vicat softening temperature, B	144	°C	ISO 306
Coeff. of linear therm. expansion, parallel	63	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	64	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	63	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	64	E-6/K	ASTM D 696
DTUL @ 66 psi	139	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	144	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E7	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	300 - 330	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	280 - 310	°C	-
Zone 2	290 - 320	°C	-
Zone 3	300 - 330	°C	-
Screw speed	0.15 - 0.2	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Special Characteristics

Increased electrical conductivity, High impact or impact modified, Heat stabilized or stable to heat

Features

Amorphous, Ductile, Copolymer

Applications

Automotive, IT / Business Machine, Electrical and Electronical, General Purpose

Regional Availability

North America, Europe, Asia Pacific