

Product Texts

LNP STAT-KON KD000 compound is based on POM (Acetal) copolymer resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E45329-101344458](https://www.ul.com/yellow-card/E45329-101344458)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.5	%	ISO 294-4, 2577
Molding shrinkage, normal	2.5	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	2.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	53	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus	3200	MPa	ISO 178
Flexural strength	82	MPa	ISO 178
Izod impact strength, +23°C, 4mm	37	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3500	MPa	ASTM D 638
Tensile Strength at Yield	58	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	3.6	%	ASTM D 638
Elongation at Break	7.2	%	ASTM D 638
Flexural Modulus	3250	MPa	ASTM D 790
Flexural Strength	95	MPa	ASTM D 790
Izod Impact notched, 1/8 in	35	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	800	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	105	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
DTUL @ 264 psi	108	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	10000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.33	%	Sim. to ISO 62
Density	1450	kg/m ³	ISO 1183
Water Absorption, 24hr	0.28	%	ASTM D 570
Density	1450	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	190 - 215	°C	-

Mold temperature	60 - 110	°C	-
Zone 1	180 - 190	°C	-
Zone 2	190 - 200	°C	-
Zone 3	200 - 220	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.4	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Special Characteristics

Increased electrical conductivity