

Product Texts

LNP STAT-KON FD000 compound is based on Polyethylene (PE) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1400	MPa	ISO 527
Yield stress	32	MPa	ISO 527
Yield strain	5.5	%	ISO 527
Stress at break	31	MPa	ISO 527
Strain at break	6.5	%	ISO 527
Flexural strength	30	MPa	ISO 178
Izod impact strength, +23°C, 4mm	53	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2220	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	32	MPa	ASTM D 638
Elongation at Yield	6.1	%	ASTM D 638
Elongation at Break	9	%	ASTM D 638
Flexural Modulus	1300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	19	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	890	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	51	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	84	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	110	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	110	E-6/K	ASTM D 696
DTUL @ 66 psi	90	°C	ASTM D 648
DTUL @ 264 psi	51	°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	0.02	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1050	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	230	°C	-
Mold temperature	40 - 55	°C	-
Zone 1	195 - 205	°C	-
Zone 2	210 - 220	°C	-
Zone 3	220 - 230	°C	-
Screw speed	30 - 60	rpm	-

Back pressure

0.2 - 0.3

MPa

-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity