

Product Texts

LNP STAT-KON FX98501 compound is based on Polyethylene (PE) resin containing conductive carbon powder and glass fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	3	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2820	MPa	ISO 527
Yield stress	36	MPa	ISO 527
Yield strain	5.6	%	ISO 527
Stress at break	32	MPa	ISO 527
Strain at break	7.7	%	ISO 527
Flexural modulus	2350	MPa	ISO 178
Flexural strength	45	MPa	ISO 178
Izod impact strength, +23°C, 4mm	31	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	3340	MPa	ASTM D 638
Tensile Strength at Yield	39	MPa	ASTM D 638
Tensile Strength at Break	29	MPa	ASTM D 638
Elongation at Yield	5.8	%	ASTM D 638
Elongation at Break	8.5	%	ASTM D 638
Flexural Modulus	2230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	151	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	541	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	114	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	91.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	129	E-6/K	ASTM D 696
DTUL @ 66 psi	118	°C	ASTM D 648
DTUL @ 264 psi	88	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1080	kg/m ³	ISO 1183
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1090	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	-

LNP™ STAT-KON™ Compound FX98501 - Americas

PE-(CD+GF)

Saudi Basic Industries Corporation (SABIC)

Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Special Characteristics

Increased electrical conductivity