

**Product Texts**

LNP STAT-KON FX98500C 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
<b>ISO Data</b>			
Molding shrinkage, parallel	3.0	%	ISO 294-4, 2577
Molding shrinkage, normal	3.0	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	3	mm/mm	ASTM D 955
Mold Shrinkage, TD	3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	870	MPa	ISO 527
Yield stress	23	MPa	ISO 527
Yield strain	14	%	ISO 527
Stress at break	14	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	930	MPa	ISO 178
Flexural strength	27	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	1070	MPa	ASTM D 638
Tensile Strength at Yield	23	MPa	ASTM D 638
Tensile Strength at Break	13	MPa	ASTM D 638
Elongation at Yield	15.8	%	ASTM D 638
Elongation at Break	43.2	%	ASTM D 638
Flexural Modulus	870	MPa	ASTM D 790
Flexural Strength	26	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	48	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 264 psi	46	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	100000	Ohm	ASTM D 257
Volume Resistivity	100000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	970	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	976	kg/m <sup>3</sup>	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	-

**LNP™ STAT-KON™ Compound FX98500C**

PE-CD

Saudi Basic Industries Corporation (SABIC)

Zone 3	<b>220 - 230</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity