

**Product Texts**

LNP STAT-KON FX09905 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>ASTM Data</b>			
Mold Shrinkage, MD	4.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	1450	MPa	ISO 527
Yield stress	27	MPa	ISO 527
Yield strain	8.7	%	ISO 527
Stress at break	23	MPa	ISO 527
Strain at break	17.8	%	ISO 527
Flexural modulus	1450	MPa	ISO 178
Flexural strength	31	MPa	ISO 178
Izod impact strength, +23°C, 4mm	106	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4.8	kJ/m <sup>2</sup>	ISO 180/1A

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	1694	MPa	ASTM D 638
Tensile Strength at Yield	29	MPa	ASTM D 638
Tensile Strength at Break	20	MPa	ASTM D 638
Elongation at Yield	9.6	%	ASTM D 638
Elongation at Break	24.2	%	ASTM D 638
Flexural Modulus	1400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	85	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	54	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	84	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	12	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	13	E-6/K	ASTM D 696
DTUL @ 66 psi	98	°C	ASTM D 648
DTUL @ 264 psi	58	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	5	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.022	%	Sim. to ISO 62
Water Absorption, 24hr	0.0079	%	ASTM D 570
Density	1020	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82	°C	-
Pre-drying - Time	4	h	-
Melt temperature	232	°C	-
Mold temperature	37 - 54	°C	-
Zone 1	193 - 204	°C	-
Zone 2	210 - 221	°C	-
Zone 3	221 - 232	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.17 - 0.34	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity