

**Product Texts**

LNP STAT-KON SX90398 compound is based on Nylon 12 resin containing stainless steel fiber. Added features of this grade include: Electrically Conductive.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	1.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	1.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.7	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	1440	MPa	ISO 527
Yield stress	38	MPa	ISO 527
Stress at break	35	MPa	ISO 527
Flexural modulus	1760	MPa	ISO 178
Flexural strength	50	MPa	ISO 178
Izod impact strength, +23°C, 4mm	85	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	1900	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	36	MPa	ASTM D 638
Elongation at Yield	5.3	%	ASTM D 638
Elongation at Break	117	%	ASTM D 638
Flexural Modulus	1770	MPa	ASTM D 790
Flexural Strength	62	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	73	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	104	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	113	°C	ASTM D 648
DTUL @ 264 psi	67	°C	ASTM D 648

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	1000000	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1090	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1100	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.2	%	-
Melt temperature	205	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	180 - 195	°C	-
Zone 2	205 - 215	°C	-

**LNP™ STAT-KON™ Compound SX90398**

PA12-MEF(x)

Saudi Basic Industries Corporation (SABIC)

Zone 3	<b>230 - 245</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