

**LNP™ STAT-KON™ Compound KS000MXL**

POM-MEF(x)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP STAT-KON KS000MXL compound is based on POM (Acetal) copolymer resin containing stainless steel fiber. Added features of this grade include: Low Extractables, Metal Detectable, Electrically Conductive.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	2.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	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	2880	MPa	ISO 527
Yield stress	52	MPa	ISO 527
Yield strain	11	%	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	26	%	ISO 527
Flexural modulus	2590	MPa	ISO 178
Flexural strength	75	MPa	ISO 178
Izod impact strength, +23°C, 4mm	57	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	3010	MPa	ASTM D 638
Tensile Strength at Yield	52	MPa	ASTM D 638
Tensile Strength at Break	51	MPa	ASTM D 638
Elongation at Yield	11	%	ASTM D 638
Elongation at Break	27	%	ASTM D 638
Flexural Modulus	2680	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	929	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	95	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	149	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	99	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	97.9	E-6/K	ASTM D 696
DTUL @ 66 psi	158	°C	ASTM D 648
DTUL @ 264 psi	104	°C	ASTM D 648

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Surface Resistivity	1.93E12	Ohm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.21	%	Sim. to ISO 62
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1730	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	40	h	-
Melt temperature	200 - 215	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	175 - 190	°C	-
Zone 2	195 - 205	°C	-
Zone 3	210 - 220	°C	-
Screw speed	30 - 60	rpm	-

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Back pressure	<b>0.2 - 0.3</b>	MPa	-
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**Characteristics**

**Processing**

Injection Molding

**Features**

Metal Detectable

**Special Characteristics**

Increased electrical conductivity

**Regional Availability**

North America, Europe, Asia Pacific