

**LNP™ STAT-KON™ Compound RX05489 - Americas**

(PA66+PTFE)-(CF+GF)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP STAT-KON RX05489 compound is based on Nylon 6/6 resin containing 10% carbon fiber, 20% glass fiber, 15% PTFE/silicone. Added features of this grade include: Electrically Conductive, Wear Resistant.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	13600	MPa	ISO 527
Yield stress	172	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Stress at break	172	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	12000	MPa	ISO 178
Flexural strength	258	MPa	ISO 178
Izod impact strength, +23°C, 4mm	48	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	14940	MPa	ASTM D 638
Tensile Strength at Yield	175	MPa	ASTM D 638
Tensile Strength at Break	175	MPa	ASTM D 638
Elongation at Yield	2.4	%	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	12100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	85	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	807	J/m	ASTM D 256

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	238	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	255	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	258	°C	ASTM D 648
DTUL @ 264 psi	246	°C	ASTM D 648

**Electrical properties**

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

**Other properties**

	Value	Unit	Test Standard
Humidity absorption	0.92	%	Sim. to ISO 62
Density	1410	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.62	%	ASTM D 570
Density	1410	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	-
Processing humidity	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-

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Back pressure **0.2 - 0.3** MPa -

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**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Special Characteristics**

Increased electrical conductivity