

LNP™ STAT-KON™ Compound RX05488

(PA66+PTFE)-(CF+GF)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON RX05488 compound is based on Nylon 6/6 resin containing carbon fiber, glass fiber, PTFE. Added features of this grade include: Electrically Conductive, Flame Retardant, Wear Resistant.

UL Yellow Card Link [E121562-101282847](https://www.ulprospector.com/121562-101282847)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18700	MPa	ISO 527
Stress at break	175	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	17600	MPa	ISO 178
Flexural strength	271	MPa	ISO 178
Izod impact strength, +23°C, 4mm	44	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	24610	MPa	ASTM D 638
Tensile Strength at Break	169	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	14470	MPa	ASTM D 790
Flexural Strength	255	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	646	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	240	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thckn. Thickness tested	V-0 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 264 psi	242	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.47	%	Sim. to ISO 62
Water Absorption, 24hr	0.32	%	ASTM D 570
Density	1700	kg/m ³	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	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-

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Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific