

LNP™ STAT-KON™ Compound REL33

(PA66+PTFE)-CF15

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON REL33 compound is based on Nylon 6/6 resin containing 15% carbon fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11700	MPa	ISO 527
Yield stress	164	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Stress at break	164	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	8580	MPa	ISO 178
Flexural strength	231	MPa	ISO 178
Izod impact strength, +23°C, 4mm	44	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	12520	MPa	ASTM D 638
Tensile Strength at Yield	169	MPa	ASTM D 638
Tensile Strength at Break	169	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	8730	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	732	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	244	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	2	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	9	E-6/K	ASTM D 696
DTUL @ 66 psi	261	°C	ASTM D 648
DTUL @ 264 psi	253	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	10000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.9	%	Sim. to ISO 62
Density	1290	kg/m ³	ISO 1183
Water Absorption, 24hr	0.61	%	ASTM D 570
Density	1290	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	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-

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Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity