

Product Texts

LNP STAT-KON REL42 compound is based on Nylon 6/6 resin containing 20% PTFE, 10% carbon fiber. Added features of this grade include: Electrically Conductive, Internally Lubricated, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.2	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8690	MPa	ISO 527
Yield stress	133	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Stress at break	133	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	7400	MPa	ISO 178
Flexural strength	186	MPa	ISO 178
Izod impact strength, +23°C, 4mm	29	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8270	MPa	ASTM D 638
Tensile Strength at Yield	132	MPa	ASTM D 638
Tensile Strength at Break	132	MPa	ASTM D 638
Elongation at Yield	2.5	%	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	443	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	242	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	258	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	260	°C	ASTM D 648
DTUL @ 264 psi	247	°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
Density	1320	kg/m ³	ISO 1183
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1320	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	-

LNP™ STAT-KON™ Compound REL42

(PA66+PTFE)-CF20

Saudi Basic Industries Corporation (SABIC)

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