

Product Texts

LNP STAT-KON RE0029 compound is based on Nylon 6/6 resin containing 10% carbon fiber. Added features of this grade include: Electrically Conductive, Flame Retardant.

UL Yellow Card Link [E207780-103093587](https://www.ulprospector.com/PA66-CF10)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10200	MPa	ISO 527
Yield stress	126	MPa	ISO 527
Yield strain	1.6	%	ISO 527
Stress at break	126	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	9000	MPa	ISO 178
Flexural strength	186	MPa	ISO 178
Izod impact strength, +23°C, 4mm	24	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11030	MPa	ASTM D 638
Tensile Strength at Yield	131	MPa	ASTM D 638
Tensile Strength at Break	131	MPa	ASTM D 638
Elongation at Yield	1.7	%	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	8270	MPa	ASTM D 790
Flexural Strength	179	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1330	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	233	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	253	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	256	°C	ASTM D 648
DTUL @ 264 psi	238	°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	1460	kg/m ³	ISO 1183
Water Absorption, 24hr	0.4	%	ASTM D 570
Density	1460	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	-
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