

Product Texts

LNP STAT-KON RE006 compound is based on Nylon 6/6 resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	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	20300	MPa	ISO 527
Stress at break	238	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	17000	MPa	ISO 178
Flexural strength	355	MPa	ISO 178
Izod impact strength, +23°C, 4mm	61	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	22200	MPa	ASTM D 638
Tensile Strength at Break	246	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	17600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	119	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1030	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	248	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	259	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	32.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	48.1	E-6/K	ASTM D 696
DTUL @ 66 psi	261	°C	ASTM D 648
DTUL @ 264 psi	254	°C	ASTM D 648

Electrical properties

	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257

Other properties

	Value	Unit	Test Standard
Humidity absorption	1.1	%	Sim. to ISO 62
Water Absorption, 24hr	0.72	%	ASTM D 570
Density	1270	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

Regional Availability

North America

Special Characteristics

Increased electrical conductivity