

Product Texts

LNP STAT-KON RD000 compound is based on Nylon 6/6 resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.6	%	ISO 294-4, 2577
Molding shrinkage, normal	2.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	2.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3100	MPa	ISO 527
Stress at break	64	MPa	ISO 527
Strain at break	7.6	%	ISO 527
Flexural modulus	3000	MPa	ISO 178
Flexural strength	96	MPa	ISO 178
Izod impact strength, +23°C, 4mm	90	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3170	MPa	ASTM D 638
Tensile Strength at Break	67	MPa	ASTM D 638
Elongation at Break	4.5	%	ASTM D 638
Flexural Modulus	2750	MPa	ASTM D 790
Flexural Strength	95	MPa	ASTM D 790
Izod Impact notched, 1/8 in	106	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1070	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	77	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	218	°C	ASTM D 648
DTUL @ 264 psi	94	°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	0.96	%	Sim. to ISO 62
Water Absorption, 24hr	0.54	%	ASTM D 570
Density	1190	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, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity