

Product Texts

LNP STAT-KON DEL36 compound is based on Polycarbonate (PC) resin containing 30% 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	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15800	MPa	ISO 527
Stress at break	150	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	14000	MPa	ISO 178
Flexural strength	193	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	18500	MPa	ASTM D 638
Tensile Strength at Break	123	MPa	ASTM D 638
Elongation at Break	1.4	%	ASTM D 638
Flexural Modulus	13300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	73	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	475	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	144	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	150	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	16	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	37.1	E-6/K	ASTM D 696
DTUL @ 66 psi	149	°C	ASTM D 648
DTUL @ 264 psi	144	°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	0.12	%	Sim. to ISO 62
Density	1430	kg/m ³	ISO 1183
Water Absorption, 24hr	0.08	%	ASTM D 570
Density	1430	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°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