

Product Texts

LNP STAT-KON DC10EPFR compound is based on Polycarbonate (PC) resin containing 10% carbon fiber. Added features of this grade include: Flame Retardant, Electrically Conductive, Exceptional Processing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7570	MPa	ISO 527
Stress at break	118	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus, 23°C	6800	MPa	ISO 178
Flexural strength	169	MPa	ISO 178
Izod impact strength, +23°C	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7940	MPa	ASTM D 638
Tensile Strength at Break	120	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	6800	MPa	ASTM D 790
Izod Impact notched, 1/8 in	59	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	546	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	137	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	42	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	46	E-6/K	ASTM D 696
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	138	°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	0.17	%	Sim. to ISO 62
Density	1240	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

Applications

Electrical and Electronical

Special Characteristics

Increased electrical conductivity, Flame retardant

Regional Availability

North America, Europe, Asia Pacific, South and Central America