

Product Texts

LNP STAT-KON EX01407C compound is based on Polyetherimide (PEI) resin containing carbon fiber and PTFE. Added features of this grade include: LNP Clean Compounding Technology, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.55	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.77	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10300	MPa	ISO 527
Stress at break	89	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	9640	MPa	ISO 178
Flexural strength	147	MPa	ISO 178
Izod impact strength, +23°C, 4mm	16	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11220	MPa	ASTM D 638
Tensile Strength at Break	88	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	8950	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	273	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	209	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	216	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	14	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	38	E-6/K	ASTM D 696
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	209	°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	0.2	%	Sim. to ISO 62
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1400	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 375	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	355 - 365	°C	-
Zone 2	360 - 370	°C	-
Zone 3	365 - 375	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity