

Product Texts

LNP STAT-KON EX11402R compound is based on Polyetherimide (PEI) resin containing proprietary fillers. Added features of this grade include: Electrically Conductive, Radar Absorbing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3730	MPa	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	3680	MPa	ISO 178
Flexural strength	159	MPa	ISO 178
Izod impact strength, +23°C, 4mm	21	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3840	MPa	ASTM D 638
Tensile Strength at Break	74	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	4000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	16	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	346	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	192	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	203	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	43.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	45	E-6/K	ASTM D 696
DTUL @ 66 psi	205	°C	ASTM D 648
DTUL @ 264 psi	201	°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	0.25	%	Sim. to ISO 62
Water Absorption, 24hr	0.35	%	ASTM D 570
Density	1300	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 - 400	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	360 - 380	°C	-
Zone 2	370 - 390	°C	-
Zone 3	380 - 400	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific