

Product Texts

LNP STAT-KON ZE0039 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 15% carbon fiber. Added features of this grade include: Electrically Conductive , Flame Retardant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.15	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11000	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Yield strain	1.1	%	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	1.1	%	ISO 527
Flexural modulus	10600	MPa	ISO 178
Flexural strength	150	MPa	ISO 178
Izod impact strength, +23°C, 4mm	18	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11720	MPa	ASTM D 638
Tensile Strength at Yield	112	MPa	ASTM D 638
Tensile Strength at Break	112	MPa	ASTM D 638
Elongation at Yield	1.2	%	ASTM D 638
Elongation at Break	1.2	%	ASTM D 638
Flexural Modulus	8960	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	267	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	106	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	113	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	29	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	47	E-6/K	ASTM D 696
DTUL @ 66 psi	112	°C	ASTM D 648
DTUL @ 264 psi	103	°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
Density	1200	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1210	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	300 - 305	°C	-
Mold temperature	80 - 110	°C	-

Zone 1	275 - 290	°C	-
Zone 2	290 - 300	°C	-
Zone 3	300 - 310	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific