

Product Texts

LNP STAT-KON OE002 compound is based on Polyphenylene Sulfide (PPS) linear resin containing 10% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.65	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.75	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7500	MPa	ISO 527
Yield stress	96	MPa	ISO 527
Yield strain	1.7	%	ISO 527
Stress at break	96	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	6520	MPa	ISO 178
Flexural strength	148	MPa	ISO 178
Izod impact strength, +23°C, 4mm	18	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	7390	MPa	ASTM D 638
Tensile Strength at Yield	95	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Yield	1.7	%	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	6440	MPa	ASTM D 790
Izod Impact notched, 1/8 in	43	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	370	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	122	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	259	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	27	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	52	E-6/K	ASTM D 696
DTUL @ 66 psi	263	°C	ASTM D 648
DTUL @ 264 psi	189	°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	0.02	%	Sim. to ISO 62
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1380	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Melt temperature	315 - 320	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	305 - 315	°C	-
Zone 2	320 - 330	°C	-
Zone 3	330 - 345	°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