

Product Texts

LNP STAT-KON OE004AE compound is based on Polyphenylene Sulfide (PPS) branched resin containing 20% carbon fiber. Added features of this grade include: Easy Molding, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	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	19100	MPa	ISO 527
Yield stress	146	MPa	ISO 527
Yield strain	0.8	%	ISO 527
Stress at break	146	MPa	ISO 527
Strain at break	0.8	%	ISO 527
Flexural modulus	16000	MPa	ISO 178
Izod impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	27160	MPa	ASTM D 638
Tensile Strength at Yield	163	MPa	ASTM D 638
Tensile Strength at Break	163	MPa	ASTM D 638
Elongation at Yield	0.8	%	ASTM D 638
Elongation at Break	0.8	%	ASTM D 638
Flexural Modulus	15710	MPa	ASTM D 790
Izod Impact notched, 1/8 in	47	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	254	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	262	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	279	°C	ASTM D 648
DTUL @ 264 psi	263	°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
Density	1420	kg/m ³	ISO 1183
Density	1420	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, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity