

Product Texts

LNP STAT-KON OE006C1 compound is based on Polyphenylene Sulfide (PPS) linear resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.09	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	22000	MPa	ISO 527
Stress at break	173	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	19600	MPa	ISO 178
Flexural strength	263	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	23540	MPa	ASTM D 638
Tensile Strength at Break	192	MPa	ASTM D 638
Elongation at Break	1.2	%	ASTM D 638
Flexural Modulus	19900	MPa	ASTM D 790
Izod Impact notched, 1/8 in	49	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	442	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	252	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	275	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	7.99	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	34.9	E-6/K	ASTM D 696
DTUL @ 66 psi	277	°C	ASTM D 648
DTUL @ 264 psi	264	°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	0.02	%	Sim. to ISO 62
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1450	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