

Product Texts

LNP STAT-KON OE006A compound is based on Polyphenylene Sulfide (PPS) branched resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E121562-101284689](https://www.ul.com/yellow-card/E121562-101284689)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	25400	MPa	ISO 527
Stress at break	204	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	24700	MPa	ISO 178
Flexural strength	311	MPa	ISO 178
Izod impact strength, +23°C, 4mm	28	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	32750	MPa	ASTM D 638
Tensile Strength at Break	210	MPa	ASTM D 638
Elongation at Break	1.1	%	ASTM D 638
Flexural Modulus	23510	MPa	ASTM D 790
Flexural Strength	304	MPa	ASTM D 790
Izod Impact notched, 1/8 in	49	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	437	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.03	%	Sim. to ISO 62
Density	1440	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1440	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