

Product Texts

LNP STAT-KON ZJK20I is a static dissipative CNT compound based on polyphenylene ether (PPE) + polystyrene (PS) resin with low particulate count and good high heat properties. This material is an excellent candidate for IC tray, Wafer cassette and Slider tray parts in the semiconductor industry.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4200	MPa	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	3.6	%	ISO 527
Flexural modulus, 23°C	4020	MPa	ISO 178
Flexural strength	124	MPa	ISO 178
Izod impact strength, +23°C	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	4	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4320	MPa	ASTM D 638
Tensile Strength at Yield	85	MPa	ASTM D 638
Tensile Strength at Break	82	MPa	ASTM D 638
Elongation at Yield	4.2	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	4320	MPa	ASTM D 790
Flexural Strength	133	MPa	ASTM D 790
Izod Impact notched, 1/8 in	38	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	345	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	153	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	164	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	47	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	61	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	164	°C	ASTM D 648
DTUL @ 264 psi	153	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E8	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1150	kg/m ³	ISO 1183
Density	1150	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	310 - 320	°C	-
Mold temperature	100 - 120	°C	-
Feed temperature	40	°C	-
Zone 1	300 - 310	°C	-
Zone 2	300 - 310	°C	-

Zone 3	310 - 320	°C	-
Nozzle temperature	240 - 260	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Increased electrical conductivity, Heat stabilized or stable to heat

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America