

# LNPTM STAT-KONTM COMPOUND EJ000CXP

## DESCRIPTION

LNP STAT-KON EJ000CXP is a static dissipative compound based on Polyetherimide (PEI) resin containing carbon nanotubes. Added features of this grade include: LNP Clean Compounding Technology, Dimensional Stability. This material has a fit in broad range of markets including the semiconductor industry.

GENERAL INFORMATION	
Features	Electrically Conductive, Low ionics/Outgassing/Liquid particle count, Dimensional stability, No PFAS intentionally added
Fillers	Carbon nanotube
Polymer Types	Polyetherimide (PEI)
Processing Techniques	Injection Molding
INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Electrical, Material Handling

## TYPICAL PROPERTY VALUES

Revision 20241121

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Tensile Stress, brk, Type I, 50 mm/min	105	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	4.5	%	ASTM D638
Tensile Modulus, 50 mm/min	3000	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	170	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3500	MPa	ASTM D790
Tensile Stress, break, 50 mm/min	110	MPa	ISO 527
Tensile Strain, break, 50 mm/min	5	%	ISO 527
Tensile Modulus, 1 mm/min	3970	MPa	ISO 527
Flexural Strength, 2 mm/min	170	MPa	ISO 178
Flexural Modulus, 2 mm/min	3590	MPa	ISO 178
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, notched, 23°C	45	J/m	ASTM D256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched 80*10*3 +23°C	6	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, unnotched 80*10*3 +23°C	58	kJ/m <sup>2</sup>	ISO 180/1U
<b>THERMAL <sup>(1)</sup></b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	210	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D648
<b>PHYSICAL <sup>(1)</sup></b>			
Specific Gravity	1.29	-	ASTM D792
Melt Volume Rate, MVR at 337°C/6.7 kg	6.1	cm <sup>3</sup> /10 min	ISO 1133

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>ELECTRICAL <sup>(1)</sup></b>			
Surface Resistivity	1.E+04 – 1.E+07	Ω	ASTM D257
<b>INJECTION MOLDING <sup>(2)</sup></b>			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	340 – 400	°C	
Nozzle Temperature	380 – 400	°C	
Front - Zone 3 Temperature	360 – 400	°C	
Middle - Zone 2 Temperature	350 – 390	°C	
Rear - Zone 1 Temperature	340 – 380	°C	
Mold Temperature	140 – 180	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	1.5 – 2	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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