



LNP™ STAT-KON™ Compound EX07311P

Asia Pacific: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound EX07311P (SER)

Product reorder name: EX07311P

LNP STAT-KON* EX07311P is an easy flowing ESD-safe compound based on Polyetherimide resin. This compound is developed for good dimensional stability for use in ESD Tray for Backend Semicon and HDD tray applications.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1780	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	152900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2030	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	117200	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	174	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	15200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	203	MPa	ISO 178
Flexural Strain, break, 2 mm/min	1.7	%	ISO 178
Flexural Modulus, 2 mm/min	13200	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	202	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.9E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.38E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	204	°C	ISO 75/Af
PHYSICAL			
Density	1.56	g/cm ³	ASTM D 792
Mold Shrinkage, flow (5)	0.29	%	SABIC Method
Mold Shrinkage, xflow (5)	0.36	%	SABIC Method
Wear Factor Washer	20	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified: Manual



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PHYSICAL			
Dynamic COF	0.4	-	ASTM D 3702 Modified: Manual
Density	1.56	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 345°C/10.0 kg	30	cm ³ /10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	1.E+05 - 1.E+06	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+05 - 1.E+06	Ohm	ASTM D 257
Surface Resistivity, ROA	1.E+05 - 1.E+06	Ohm	IEC 60093



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	350 - 400	°C
Nozzle Temperature	345 - 400	°C
Front - Zone 3 Temperature	345 - 400	°C
Middle - Zone 2 Temperature	340 - 400	°C
Rear - Zone 1 Temperature	330 - 400	°C
Mold Temperature	135 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm