



LNP™ STAT-KON™ Compound EX12310C

Asia Pacific: COMMERCIAL

LNP STAT-KON EX12310C is an Electrical Conductive thermoplastic compound featuring Electrostatic Discharge (ESD) Safe performance based on a unique Ultra Clean Polyetherimide resin reinforced with 10% carbon fiber. This compound provides good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding applications in the Hard Disk Drive and Semiconductor Industry. A unique feature of this material is its low C18-C40 hydrocarbons and this compound is manufactured using the LNP Clean Compounding Solution (CCS) Technology.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1610	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	93500	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2280	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	83000	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	156	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	8970	MPa	ISO 527
Flexural Stress, break, 2 mm/min	225	MPa	ISO 178
Flexural Modulus, 2 mm/min	8410	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	3	kJ/m ²	ISO 179/1eA
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	197	°C	ASTM D 648
CTE, 40°C to 120°C, flow	1.56E-05	1/°C	ASTM E 831
CTE, 40°C to 120°C, xflow	6.25E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Melt Flow Rate, 367°C/6.6 kgf	31	g/10 min	ASTM D 1238
Density (Molded)	1.31	g/cm ³	ISO 1183
ELECTRICAL			
Volume Resistivity	5.08E+05	Ohm-cm	ASTM D 257



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ELECTRICAL			
Surface Resistivity	3.97E+05	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.6	mm	UL 94 by SABIC-IP



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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 - 380	°C
Nozzle Temperature	345 - 380	°C
Front - Zone 3 Temperature	345 - 380	°C
Middle - Zone 2 Temperature	340 - 380	°C
Rear - Zone 1 Temperature	330 - 380	°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