



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

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
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

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