

LNP™ STAT-KON™ EX12310C compound

Polyether Imide

SABIC Innovative Plastics Asia Pacific

Message:

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.

General Information			
UL YellowCard	E207780-101997197		
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight		
Features	Clean/High Purity		
	Electrically Conductive		
	ESD Protection		
	Good Dimensional Stability		
	Good Stiffness		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.31	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (367°C/6.6 kg)	31	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	9170	MPa	ASTM D638
--	8980	MPa	ISO 527-2/1
Tensile Strength			
Break ³	158	MPa	ASTM D638
Break	156	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	8140	MPa	ASTM D790
-- ⁶	8410	MPa	ISO 178
Flexural Stress			
--	225	MPa	ISO 178
Break, 50.0 mm Span ⁷	224	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁸ (23°C)	3.6	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	197	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	201	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : 40 to 120°C	1.6E-5	cm/cm/°C	
Transverse : 40 to 120°C	6.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.0E+5	ohms	ASTM D257
Volume Resistivity	5.1E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.600 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	330 to 380	°C	
Middle Temperature	340 to 380	°C	
Front Temperature	345 to 380	°C	
Nozzle Temperature	345 to 380	°C	
Processing (Melt) Temp	350 to 380	°C	
Mold Temperature	135 to 165	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	Molded		
2.	5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4 mm, Cut		
9.	80*10*4 mm		

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