

LNP™ STAT-KON™ DX13320C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP™ Stat-Kon™ DX13320C is an electrical conductive thermoplastic compound featuring electrostatic discharge (ESD) safe performance based on a unique Ultra Clean Polycarbonate (PC) resin reinforced with 20% 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	E207780-101977560		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electrically Conductive		
	ESD Protection		
	Good Dimensional Stability		
	Good Stiffness		
	Low (to None) Ion Content		
Uses	Semiconductor Molding Compounds		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	34.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.10 to 0.20	%	
Across Flow : 3.20 mm	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15200	MPa	ASTM D638
--	14600	MPa	ISO 527-2/1
Tensile Strength			
Break ²	152	MPa	ASTM D638
Break	150	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.0	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
--	11500	MPa	ASTM D790
-- ⁴	11600	MPa	ISO 178
Flexural Strength			

--	209	MPa	ASTM D790
--	187	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/2C
Charpy Unnotched Impact Strength (23°C)	28	kJ/m ²	ISO 179/2U
Notched Izod Impact (23°C)	71	J/m	ASTM D256
Unnotched Izod Impact (23°C)	410	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	117	°C	ASTM D648
CLTE			ASTM E831
Flow : -40 to 40°C	9.2E-6	cm/cm/°C	
Transverse : -40 to 40°C	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3 to 5.0E+5	ohms	ASTM D257
Volume Resistivity	5.0E+3 to 5.0E+5	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	250 to 280	°C	
Middle Temperature	280 to 320	°C	
Front Temperature	280 to 320	°C	
Nozzle Temperature	280 to 320	°C	
Processing (Melt) Temp	280 to 320	°C	
Mold Temperature	90.0 to 120	°C	
Back Pressure	1.00 to 5.00	MPa	
Screw Speed	30 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	2.0 mm/min		

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