

LNP™ STAT-KON™ DX09303C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DX09303C is carbon fiber filled polycarbonate composite with high modulus, good flow ability, and high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

General Information			
UL YellowCard	E207780-101095846		
Filler / Reinforcement	Carbon Fiber		
Features	Good Flow		
	Low (to None) Ion Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	47.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.050 to 0.15	%	
Across Flow : 3.20 mm	0.10 to 0.25	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	20100	MPa	ASTM D638
Tensile Strength ² (Break)	161	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0	%	ASTM D638
Flexural Modulus	18000	MPa	ASTM D790
Flexural Strength	246	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	82	J/m	ASTM D256
Unnotched Izod Impact (23°C)	600	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	125	°C	ASTM D648
CLTE			ASTM E831
Flow : -40 to 40°C	4.4E-6	cm/cm/°C	
Transverse : -40 to 40°C	6.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3 to 5.0E+5	ohms	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	

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