

LNP™ STAT-KON™ DX10315C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DX10315C is carbon fiber filled polycarbonate composite with good stiffness, good flow ability, ESD safety, and high level of cleanliness for the most demanding application. This compound is manufactured using LNP CCS Technology.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	ESD Protection		
	Good Flow		
	Good Stiffness		
	Low (to None) Ion Content		
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)	31.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.10 to 0.30	%	
Across Flow : 3.20 mm	0.10 to 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	10800	MPa	ASTM D638
Tensile Strength ² (Break)	140	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.7	%	ASTM D638
Flexural Modulus	9040	MPa	ASTM D790
Flexural Strength	211	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	77	J/m	ASTM D256
Unnotched Izod Impact (23°C)	590	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	138	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+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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