

LNP™ STAT-KON™ DX99873C compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DX99872C is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-D-99873 CCS

Product reorder name: DX99873C

General Information			
UL YellowCard	E121562-101284691		
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
	Low (to None) Ion Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.050	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10800	MPa	ASTM D638
--	10800	MPa	ISO 527-2/1
Tensile Strength			
Break	104	MPa	ASTM D638
Break	99.0	MPa	ISO 527-2
Tensile Elongation			
Break	1.7	%	ASTM D638
Break	1.6	%	ISO 527-2
Flexural Modulus			
--	9690	MPa	ASTM D790
--	9250	MPa	ISO 178
Flexural Strength			
--	171	MPa	ASTM D790
--	163	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	53	J/m	ASTM D256
23°C ²	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C ³	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.2	J	ASTM D3763
--	2.77	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	139	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	139	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Transverse : -40 to 40°C	3.7E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.8E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

