

LNP™ STAT-KON™ CX99000 compound

High Impact Polystyrene

SABIC Innovative Plastics Europe

Message:

LNP STAT-KON CX99000 is a compound based on Polystyrene containing Carbon Powder. Added features include : Electrically Conductive, Easy Molding.

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	Good Moldability		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	24.0	MPa	
Break	23.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	1.8	%	
Break	2.2	%	
Flexural Modulus ¹	1700	MPa	ISO 178
Flexural Stress	41.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ² (23°C)	15	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 64.0 mm Span	90.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	75.0	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	

Front Temperature	266 to 277	°C
Processing (Melt) Temp	249	°C
Mold Temperature	37.8 to 65.6	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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