

LNP™ STAT-KON™ CD000I compound

High Impact Polystyrene

SABIC Innovative Plastics

Message:

LNP STAT-KON CD000I is a compound based on Polystyrene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

Also known as: LNP* STAT-KON* Compound C-HI

Product reorder name: CD000I

General Information			
UL YellowCard	E121562-101284104		
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.70	%	
Across Flow : 24 hr	0.40 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2280	MPa	ASTM D638
--	2120	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	23.1	MPa	ASTM D638
Yield	23.0	MPa	ISO 527-2/5
Break ³	16.5	MPa	ASTM D638
Break	17.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.3	%	ASTM D638
Yield	1.3	%	ISO 527-2/5
Break ⁵	9.7	%	ASTM D638
Break	7.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2280	MPa	ASTM D790
-- ⁷	2100	MPa	ISO 178

Flexural Stress			
--	40.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	42.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	82	J/m	ASTM D256
23°C ⁹	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	740	J/m	ASTM D4812
23°C ¹⁰	31	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	18.7	J	ASTM D3763
--	15.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	87.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	87.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	75.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	78.0	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	9.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0 to 5.0	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		

8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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