

LNP™ STAT-KON™ DD0009XP compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DD0009XP is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include:Electrically Conductive, Flame Retardant. Also known as Stat-Kon* D- FR.

Also known as: LNP* STAT-KON* Compound D-FR

Product reorder name: DD0009XP

General Information			
UL YellowCard	E207780-101283852		
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80	%	
Across Flow : 24 hr	0.70	%	
Water Absorption (24 hr, 50% RH)	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2830	MPa	ASTM D638
--	2810	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	62.0	MPa	ASTM D638
Yield	62.8	MPa	ISO 527-2/5
Break ³	54.0	MPa	ASTM D638
Break	57.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.2	%	ASTM D638
Yield	4.2	%	ISO 527-2/5
Break ⁵	5.6	%	ASTM D638
Break	7.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2830	MPa	ASTM D790
-- ⁷	2880	MPa	ISO 178
Flexural Stress			
--	102	MPa	ISO 178

Break, 50.0 mm Span ⁸	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	69	J/m	ASTM D256
23°C ⁹	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1500	J/m	ASTM D4812
23°C ¹⁰	71	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.0	J	ASTM D3763
--	6.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	139	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	133	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	131	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.0E-5	cm/cm/°C	ASTM E831
Flow : 23 to 60°C	5.4E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.2E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 60°C	5.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+10	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.70 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	254 to 266	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	254 to 288	°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.	50 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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