

LNP™ STAT-KON™ DD0009P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DD0009P is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Exceptional Processing, Flame Retardant.

Also known as: LNP* STAT-KON* Compound D-EP V-1

Product reorder name: DD0009P

General Information			
UL YellowCard	E121562-101345260		
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.80	%	ASTM D955
Across Flow : 24 hr	0.80	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.78	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.23	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2620	MPa	ASTM D638
--	2800	MPa	ISO 527-2/1
Tensile Strength			
Yield	64.1	MPa	ASTM D638
Yield	59.9	MPa	ISO 527-2
Break	54.7	MPa	ASTM D638
Break	53.6	MPa	ISO 527-2
Tensile Elongation			
Yield	4.8	%	ASTM D638
Yield	4.4	%	ISO 527-2
Break	10	%	ASTM D638
Break	9.5	%	ISO 527-2
Flexural Modulus			

--	2830	MPa	ASTM D790
--	3000	MPa	ISO 178
Flexural Strength	103	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C ²	9.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
23°C ³	130	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	12.5	J	ASTM D3763
--	35.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	130	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	128	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-1		UL 94
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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