

LNP™ STAT-KON™ DD0009E compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DD0009E is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant, Easy Molding.

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

Product reorder name: DD0009E

General Information			
UL YellowCard	E121562-101344530		
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	Flame Retardant		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.16	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3060	MPa	ASTM D638
--	3060	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	61.2	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/5
Break ³	61.0	MPa	ASTM D638
Tensile Elongation			
Yield ⁴	3.8	%	ASTM D638
Yield	4.3	%	ISO 527-2/5
Break ⁵	4.1	%	ASTM D638
Break	8.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	3060	MPa	ASTM D790
-- ⁷	2890	MPa	ISO 178

Flexural Stress			
--	105	MPa	ISO 178
Yield, 50.0 mm Span ⁸	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁹	5.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2000	J/m	ASTM D4812
23°C ¹⁰	100	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	12.7	J	ASTM D3763
--	5.30	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	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	130	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	128	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	7.0E-6	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 4.0	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.	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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