

LNP™ STAT-KON™ DD0001 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DD0001 is a compound based on Polycarbonate resin containing Carbon Powder, Flame Retardant. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound D-FR ECO
Product reorder name: DD0001

General Information			
UL YellowCard	E207780-101345252		
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.40	%	ISO 294-4
Flow direction: 24 hours	0.39	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3450	MPa	ASTM D638
--	3750	MPa	ISO 527-2/1
Tensile Strength			
Fracture	64.3	MPa	ASTM D638
Fracture	64.6	MPa	ISO 527-2
Tensile Elongation			
Fracture	3.7	%	ASTM D638
Fracture	3.2	%	ISO 527-2
Flexural Modulus	3520	MPa	ASTM D790, ISO 178
Flexural Strength			
--	117	MPa	ASTM D790
--	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	23	J/m	ASTM D256
23°C ²	2.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ³	37	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	1.93	J	ASTM D3763
--	0.700	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	86.7	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	88.4	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	82.2	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	82.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	5.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	5.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.70 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	254 - 266	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	254 - 288	°C	
Mold Temperature	37.8 - 65.6	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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