

LNP™ STAT-KON™ DD000 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DD000 is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound D
Product reorder name: DD000

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.80	%	ASTM D955
Transverse flow: 24 hours	0.80	%	ASTM D955
Vertical flow direction: 24 hours	0.82	%	ISO 294-4
Flow direction: 24 hours	0.84	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.14	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2690	MPa	ASTM D638
--	2900	MPa	ISO 527-2/1
Tensile Strength			
Yield	62.9	MPa	ASTM D638
Yield	60.6	MPa	ISO 527-2
Fracture	56.3	MPa	ASTM D638
Fracture	53.7	MPa	ISO 527-2
Tensile Elongation			
Yield	4.9	%	ASTM D638
Yield	4.4	%	ISO 527-2
Fracture	9.5	%	ASTM D638
Fracture	8.8	%	ISO 527-2
Flexural Modulus			
--	2900	MPa	ASTM D790
--	3100	MPa	ISO 178
Flexural Strength			

--	102	MPa	ASTM D790
--	103	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1200	J/m	ASTM D4812
23°C ³	99	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	8.40	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	138	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	128	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	127	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°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		

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