

LNP™ STAT-KON™ DD000P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* Stat-kon* DD000P is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Exceptional Processing.
Also known as: LNP* STAT-KON* Compound D- EP
Product reorder name: DD000P

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
	Workability, good		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.60 - 0.80	%	ASTM D955
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.84	%	ISO 294-4
Flow direction: 24 hours	0.74	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2760	MPa	ASTM D638
--	2490	MPa	ISO 527-2/1
Tensile Strength			
Yield	57.2	MPa	ASTM D638
Yield	57.0	MPa	ISO 527-2
Fracture	49.6	MPa	ASTM D638
Fracture	51.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.8	%	ASTM D638, ISO 527-2
Fracture	20	%	ASTM D638
Fracture	9.9	%	ISO 527-2
Flexural Modulus			
--	2760	MPa	ASTM D790
--	2400	MPa	ISO 178
Flexural Stress	78.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	230	J/m	ASTM D256
23°C ²	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2200	J/m	ASTM D4812
23°C ³	210	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	40.5	J	ASTM D3763
--	40.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	135	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	135	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	125	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	126	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	6.7E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	6.6E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	6.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.4E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 - 1.0E+9	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		
5.	80*10*4 mm		

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