

LNP™ STAT-KON™ DE003P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DE003P is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DC-1003 EP
Product reorder name: DE003P

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.040 - 0.10	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.32 - 0.41	%	ISO 294-4
Flow direction: 24 hours	0.040 - 0.13	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11200	MPa	ASTM D638
--	9880	MPa	ISO 527-2/1
Tensile Strength			
Fracture	121	MPa	ASTM D638
Fracture	110	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.8	%	ASTM D638
Fracture	1.4	%	ISO 527-2
Flexural Modulus			
--	9930	MPa	ASTM D790
--	9770	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	184	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	77	J/m	ASTM D256
23°C ²	7.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	16.2	J	ASTM D3763
--	3.85	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	145	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	146	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	143	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	143	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	2.2E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	1.3E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	4.9E-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
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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