

LNP™ STAT-KON™ DE004 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DE004 is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DC-1004
Product reorder name: DE004

General Information			
UL YellowCard	E121562-101345264		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.040 to 0.10	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.37 to 0.45	%	ISO 294-4
Flow : 24 hr	0.040 to 0.090	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10900	MPa	ASTM D638
--	10600	MPa	ISO 527-2/1
Tensile Strength			
Break	121	MPa	ASTM D638
Break	114	MPa	ISO 527-2
Tensile Elongation			
Break	2.2	%	ASTM D638
Break	1.6	%	ISO 527-2
Flexural Modulus			
--	9790	MPa	ASTM D790
--	9780	MPa	ISO 178
Flexural Strength			
--	196	MPa	ASTM D790
--	188	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	73	J/m	ASTM D256
23°C ²	6.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	15.6	J	ASTM D3763
--	3.41	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	147	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	149	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	144	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	1.4E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.3E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.2E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	4.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+4	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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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