

LNP™ STAT-KON™ DE0049P compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DE0049P is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include: Exceptional Processing, Flame Retardant. Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DC-1004 EP FR
Product reorder name: DE0049P

General Information			
UL YellowCard	E121562-101343400		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electrically Conductive		
	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	0.56	%	ISO 294-4
Flow : 24 hr	0.14	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	16500	MPa	ASTM D638
--	16000	MPa	ISO 527-2/1
Tensile Strength			
Break	137	MPa	ASTM D638
Break	132	MPa	ISO 527-2
Tensile Elongation			
Break	0.90	%	ASTM D638
Break	1.4	%	ISO 527-2
Flexural Modulus			
--	12400	MPa	ASTM D790
--	13200	MPa	ISO 178
Flexural Strength			
--	193	MPa	ASTM D790
--	219	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	143	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	143	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	139	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	3.4E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	3.5E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	3.2E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	3.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 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 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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