LNP™ STAT-KON™ DE0049F compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* STAT-KON* DE0049F is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Superior, Molding.
Also known as: LNP* STAT-KON* Compound DC-1004 FR SM
Product reorder name: DE0049F

General Information	
UL YellowCard	E121562-101283793
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight
Features	Conductivity Good formability Flame retardancy
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.70 - 1.0	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.70	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- [1]	13400	MPa	ASTM D638
--	15000	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	137	MPa	ASTM D638
Yield	134	MPa	ISO 527-2/5
Fracture [3]	137	MPa	ASTM D638
Fracture	134	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.0	%	ASTM D638
Yield	1.6	%	ISO 527-2/5
Fracture [5]	2.0	%	ASTM D638
Fracture	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0mm span [6]	11600	MPa	ASTM D790

-- [7]	11700	MPa	ISO 178
Flexural Stress			
--	166	MPa	ISO 178
Fracture, 50.0mm span [8]	190	MPa	ASTM D790
Flexural Strain at Break [9]	170	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	47	J/m	ASTM D256
23°C [10]	5.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	490	J/m	ASTM D4812
23°C [11]	30	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	146	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [12]	148	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	143	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [13]	144	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.2E-6	cm/cm/°C	ASTM E831
Flow: 23 to 60°C	1.2E-6	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	6.8E-6	cm/cm/°C	ASTM E831
Lateral: 23 to 60°C	6.8E-6	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	10 - 1.0E+3	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 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		

6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	2 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China