

LNP™ STAT-KON™ DE0069F compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DE0069F is a compound based on Polycarbonate resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Superior Molding.

Also known as: LNP* STAT-KON* Compound DC-1006 FR SM

Product reorder name: DE0069F

General Information			
UL YellowCard	E121562-101343401		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	Flame Retardant		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.010 to 0.030	%	
Across Flow : 24 hr	0.10 to 0.40	%	
Water Absorption			
24 hr, 50% RH	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17300	MPa	ASTM D638
--	16700	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	146	MPa	ASTM D638
Yield	1.37	MPa	ISO 527-2/5
Break ³	146	MPa	ASTM D638
Break	137	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.7	%	ASTM D638
Yield	1.3	%	ISO 527-2/5
Break ⁵	1.7	%	ASTM D638
Break	1.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	14600	MPa	ASTM D790

-- ⁷	14600	MPa	ISO 178
Flexural Strength ⁸			ASTM D790
Yield, 50.0 mm Span	210	MPa	
Break, 50.0 mm Span	212	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁹	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	460	J/m	ASTM D4812
23°C ¹⁰	25	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	2.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	146	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	148	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	142	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	143	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	7.0E-6	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 4.0	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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		

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

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