

LNP™ STAT-KON™ DEI13F compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON DEI13F is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 2% Silicone. Added features of this material include: Electrically Conductive, Superior Molding, Wear Resistant.
Also known as: LNP* STAT-KON* Compound DCL-4413 SM
Product reorder name: DEI13F

General Information			
UL YellowCard	E121562-101358144		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	Silicone Lubricant (2%)		
Features	Electrically Conductive		
	Good Moldability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Flow	0.10 to 0.30	%	
Flow ¹	1.0E-3 to 3.0E-3	%	
Across Flow ²	2.0E-3 to 4.0E-3	%	
Across Flow	0.20 to 0.40	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ³	10400	MPa	ASTM D638
--	10100	MPa	ISO 527-2/1
Tensile Strength (Break)	116	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	1.8	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	7500	MPa	ASTM D790
--	9790	MPa	ISO 178
Flexural Strength			
--	172	MPa	ASTM D790
--	167	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.24		
vs. Itself - Static	0.24		
Wear Factor - Washer	343	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ⁴	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ⁵	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	25.0	J	ASTM D3763
--	103	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	142	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	142	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	9.0E-6	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.0E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	7.2E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.4E-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
Volume Resistivity	1.0E+2	ohms · cm	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.	0.75 to 2.3 mm		
2.	0.75 to 2.3 mm		
3.	50 mm/min		
4.	80*10*4		

5.	80*10*4
6.	80*10*4 mm

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