

LNP™ STAT-KON™ DEL13EXC compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DEL13EXC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 5% PTFE. Added features of this material include: Easy Molding, Electrically Conductive, Wear Resistant.

Also known as: LNP* STAT-KON* Compound DCL-4013 EM HP

Product reorder name: DEL13EXC

General Information			
UL YellowCard	E121562-101345266		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Electrically Conductive		
	Good Moldability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.29	g/cm³	
--	1.28	g/cm³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.60	%	
Across Flow : 24 hr	0.080 to 0.10	%	
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	13400	MPa	ASTM D638
--	13000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	131	MPa	ASTM D638
Yield	126	MPa	ISO 527-2/5
Break ³	131	MPa	ASTM D638
Tensile Elongation			
Yield ⁴	1.7	%	ASTM D638
Yield	1.3	%	ISO 527-2/5
Break ⁵	1.7	%	ASTM D638

Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6520	MPa	ASTM D790
-- ⁷	10200	MPa	ISO 178
Flexural Strength ⁸			ASTM D790
Yield, 50.0 mm Span	163	MPa	
Break, 50.0 mm Span	163	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	70	J/m	ASTM D256
23°C ⁹	6.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
23°C ¹⁰	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.58	J	ASTM D3763
--	3.08	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	138	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.0E-6	cm/cm/°C	
Transverse : -30 to 30°C	7.0E-6	cm/cm/°C	
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.	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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