

LNP™ STAT-KON™ DEL139P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* STAT-KON* DEL139P is a compound based on Polycarbonate containing 15% Carbon Fiber, 5% PTFE. Added features of this grade include: Electrically Conductive, Exceptional Processing, Flame Retardant, Wear Resistant.

Also known as: LNP* STAT-KON* Compound DCL-4013 EP FR

Product reorder name: DEL139P

General Information			
UL YellowCard	E121562-101343402		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Electrically Conductive		
	Flame Retardant		
	Good Processability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183, ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.12	%	
Across Flow : 24 hr	0.49	%	
Water Absorption			
24 hr, 50% RH	0.12	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12100	MPa	ASTM D638
--	13500	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	126	MPa	ASTM D638
Yield	125	MPa	ISO 527-2/5
Break ³	126	MPa	ASTM D638
Break	125	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.1	%	ASTM D638
Yield	1.6	%	ISO 527-2/5
Break ⁵	2.1	%	ASTM D638

Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	10000	MPa	ASTM D790
-- ⁷	9640	MPa	ISO 178
Flexural Strength ⁸ (Break, 50.0 mm Span)	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	46	J/m	ASTM D256
23°C ⁹	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ¹⁰	27	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	2.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	145	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	140	°C	ISO 75-2/Af
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.	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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