

LNP™ STAT-KON™ DX02437 compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DX02437 is a compound based on Polycarbonate resin containing conductive carbon powder, with good impact-resistance, flow and ESD performance, suitable for semi-con industry.

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Conductive		
	ESD Protection		
	Good Flow		
	Good Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	16.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			Internal Method
Flow	0.64	%	
Across Flow	0.68	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	2570	MPa	ASTM D638
--	2550	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	58.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Break ⁴	47.0	MPa	ASTM D638
Break	47.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁵	19	%	ASTM D638
Break	17	%	ISO 527-2/5
Flexural Modulus ⁶	2550	MPa	ISO 178
Flexural Stress ⁷			ISO 178
-- ⁸	92.0	MPa	
-- ⁹	90.0	MPa	
Flexural Strain at Break ¹⁰	7.8	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹¹ (23°C)	26	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength ¹² (23°C)	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
0°C	290	J/m	ASTM D256
23°C	360	J/m	ASTM D256
0°C ¹³	20	kJ/m ²	ISO 180/1A
23°C ¹⁴	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
23°C ¹⁵	130	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	27.0	J	ASTM D3763
23°C, Total Energy	39.1	J	ASTM D3763
--	63.1	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	111	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁶	126	°C	ISO 75-2/Af
Vicat Softening Temperature	144	°C	ISO 306/A50, ASTM D1525 ¹⁷
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.8E+7	ohms	ASTM D257
Volume Resistivity	1.4E+7	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.	1.5 to 3.2 mm		
2.	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.	2.0 mm/min		
7.	2.0 mm/min		
8.	Yield		

9.	Break
10.	2 mm/min
11.	80*10*4 sp=62mm
12.	80*10*4 sp=62mm
13.	80*10*4
14.	80*10*4
15.	80*10*4
16.	80*10*4 mm
17.	Rate A (50°C/h), Loading 2 (50 N)

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