

LNP™ STAT-KON™ DX09301C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

Low Ionic, Low Outgassing, Low LPC and ESD safe Polycarbonate compound suitable for Semiconductor and Hard Disk Drive (HDD) application. Added features of this material include: Clean Compounding System.

General Information			
UL YellowCard	E207780-101343769		
Features	ESD Protection		
	Low (to None) Ion Content		
	Low to No Outgassing		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.22	g/cm ³	ASTM D792
--	1.23	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2680	MPa	ASTM D638
--	2600	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	64.9	MPa	ASTM D638
Yield	66.0	MPa	ISO 527-2/5
Break ³	51.7	MPa	ASTM D638
Break	54.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.4	%	ASTM D638
Yield	3.1	%	ISO 527-2/5
Break ⁵	15	%	ASTM D638
Break	12	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2600	MPa	ASTM D790
-- ⁷	2560	MPa	ISO 178
Flexural Stress			
--	99.0	MPa	ISO 178

Break, 50.0 mm Span ⁸	101	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ⁹	4.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2200	J/m	ASTM D4812
23°C ¹⁰	200	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	8.18	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	137	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+7	ohms·cm	ASTM D257
Static Decay ¹²	0.1	sec	FTMS 101B
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	295 to 305	°C	
Middle Temperature	310 to 320	°C	
Front Temperature	320 to 330	°C	
Processing (Melt) Temp	305 to 325	°C	
Mold Temperature	80.0 to 110	°C	
Back Pressure	0.200 to 0.300	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.	5000V to <50V		

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