

LNP™ STAT-KON™ DX05301C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DX05301C is a compound based on Polycarbonate containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive, Low Ionic, Low Outgassing, Low LPC and ESD safe. Suitable for Semiconductor and Hard Disk Drive (HDD) Applications.

Also known as: LNP* STAT-KON* Compound PDX-D-05301 CCS

Product reorder name: DX05301C

General Information			
UL YellowCard	E121562-101345279		
Filler / Reinforcement	Proprietary packing		
Features	Low (to None) Ion Content		
	The degassing effect is low to no		
	Conductivity		
	Electrostatic discharge protection		
Uses	Semiconductor molding compound		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	23	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	22.7	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2600	MPa	ASTM D638
--	2500	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	48.4	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/5
Fracture ³	60.0	MPa	ASTM D638
Fracture	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.3	%	ASTM D638
Yield	1.5	%	ISO 527-2/5
Fracture ⁵	9.9	%	ASTM D638
Fracture	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	2280	MPa	ASTM D790
-- ⁷	2480	MPa	ISO 178

Flexural Stress			
--	77.7	MPa	ISO 178
Yield, 50.0mm span ⁸	95.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	54	J/m	ASTM D256
23°C ⁹	5.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	132	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	131	°C	ISO 75-2/Af
Vicat Softening Temperature	146	°C	ISO 306/B120
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	5.1E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	5.2E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.5E+5 - 4.5E+8	ohms	ASTM D257
Volume Resistivity	2.2E+5 - 5.5E+8	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 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 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 mm		

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