

LNP™ STAT-KON™ DX05301C 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. This product is also known as STAT-KON PDX-D-05301 CCS.

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

Product reorder name: DX05301C

General Information			
UL YellowCard	E207780-101282790		
Features	ESD Protection		
	Low (to None) Ion Content		
	Low to No Outgassing		
Uses	Electrical/Electronic Applications		
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
Molding Shrinkage			Internal Method
Flow	0.60	%	
Across Flow	0.60	%	
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
Break ³	60.0	MPa	ASTM D638
Break	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.3	%	ASTM D638
Yield	1.5	%	ISO 527-2/5
Break ⁵	9.9	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2280	MPa	ASTM D790

-- ⁷	2480	MPa	ISO 178
Flexural Stress			
--	77.7	MPa	ISO 178
Yield, 50.0 mm 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, 3.20 mm	132	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	131	°C	ISO 75-2/Af
Vicat Softening Temperature	146	°C	ISO 306/B120
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+8	ohms	ASTM D257
Volume Resistivity	1.0E+5 to 1.0E+8	ohms·cm	ASTM D257
Static Decay ¹¹	0.1	sec	FTMS 101B
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.	5.0 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 mm		
11.	5000V to <50V		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

