

LNP™ STAT-KON™ DX07323 compound

Polycarbonate + ABS

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON DX07323 is a compound based on polycarbonate resin containing conductive fillers. Added features of this compound includes: ESD safe and excellent low-temperature impact performance, intended for compliance to ATEX.

General Information			
UL YellowCard	E207780-101283809		
Filler / Reinforcement	Proprietary		
Features	ESD Protection		
	Low Temperature Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/10.0 kg)	55	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/10.0 kg)	50.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	0.50	%	Internal Method
Flow : 24 hr	0.40 to 0.70	%	ASTM D955
Across Flow	0.50	%	Internal Method
Across Flow : 24 hr	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/1
Tensile Strength			
Yield	45.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/5
Break	55.0	MPa	ASTM D638
Break	44.0	MPa	ISO 527-2/5
Tensile Elongation			ASTM D638, ISO 527-2/5
Yield	5.0	%	
Break	9.0	%	
Flexural Modulus			
--	2200	MPa	ASTM D790
-- ²	2400	MPa	ISO 178
Flexural Strength			

--	84.0	MPa	ASTM D790
--	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	100	J/m	ASTM D256
23°C	180	J/m	ASTM D256
-40°C ³	10	kJ/m ²	ISO 180/1A
23°C ⁴	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
-40°C	1500	J/m	ASTM D4812
23°C	1600	J/m	ASTM D4812
-40°C ⁵	100	kJ/m ²	ISO 180/1U
23°C ⁶	130	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	125	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁷	124	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	5.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+10	ohms	ASTM D257
Volume Resistivity	1.0E+6 to 1.0E+10	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.50 mm)	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	271 to 293	°C	
Middle Temperature	282 to 304	°C	
Front Temperature	293 to 316	°C	
Nozzle Temperature	288 to 310	°C	
Processing (Melt) Temp	293 to 316	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	
NOTE			
1.	5.0 mm/min		

2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	80*10*4
6.	80*10*4
7.	80*10*4 mm

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

