

LNP™ STAT-KON™ DX11411 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DX11411 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this grade is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DX11411

Product reorder name: DX11411

General Information			
UL YellowCard	E121562-102047000		
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.40	g/cm ³	
--	1.39	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.26	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7270	MPa	ASTM D638
--	6960	MPa	ISO 527-2/1
Tensile Strength			
Break ²	87.0	MPa	ASTM D638
Break	85.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.5	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	6780	MPa	ASTM D790
-- ⁵	6430	MPa	ISO 178
Flexural Stress			
--	114	MPa	ISO 178
Break, 50.0 mm Span ⁶	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	58	J/m	ASTM D256
23°C ⁷	5.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	280	J/m	ASTM D4812
23°C ⁸	20	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.58	J	ASTM D3763
--	2.04	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	153	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	152	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	144	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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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

