

LNP™ STAT-KON™ DX11408 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* STAT-KON* DX11408 is a compound based on Polycarbonate containing Carbon Powder. Added features of this material include: Electrically Conductive, Improved Ductility

Also known as: LNP* STAT-KON* Compound DX11408

Product reorder name: DX11408

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Ductile		
	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 1.0	%	
Across Flow : 24 hr	0.90 to 2.0	%	
Water Absorption			
24 hr, 50% RH	0.12	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2590	MPa	ASTM D638
--	2640	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	56.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/5
Break ³	48.0	MPa	ASTM D638
Break	48.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.7	%	ASTM D638
Yield	4.6	%	ISO 527-2/5
Break ⁵	22	%	ASTM D638
Break	16	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2680	MPa	ASTM D790
-- ⁷	2480	MPa	ISO 178
Flexural Stress	88.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	340	J/m	ASTM D256
23°C ⁸	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	940	J/m	ASTM D4812
Instrumented Dart Impact			
23°C, Total Energy	38.6	J	ASTM D3763
--	34.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	130	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	127	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+6	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 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.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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