

LNP™ STAT-KON™ SD000 compound

Polyamide 12
SABIC Innovative Plastics

Message:

LNP STAT-KON SD000 is an unfilled Nylon 12 compound. Added feature of this grade is: Electrically Conductive.

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

Product reorder name: SD000

General Information			
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.13	g/cm ³	
--	1.12	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.21	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2210	MPa	ASTM D638
--	2100	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	51.0	MPa	ASTM D638
Yield	49.0	MPa	ISO 527-2/5
Break ³	40.0	MPa	ASTM D638
Break	44.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	13	%	ASTM D638
Yield	11	%	ISO 527-2/5
Break ⁵	28	%	ASTM D638
Break	17	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2050	MPa	ASTM D790
-- ⁷	1980	MPa	ISO 178
Flexural Stress	67.8	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	36	J/m	ASTM D256
23°C ⁸	4.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1900	J/m	ASTM D4812
23°C ⁹	220	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	2.84	J	ASTM D3763
--	1.54	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	158	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	138	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	96.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	61.5	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.9E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 4.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	216 to 227	°C	
Middle Temperature	221 to 232	°C	
Front Temperature	227 to 238	°C	
Processing (Melt) Temp	227 to 238	°C	
Mold Temperature	71.1 to 82.2	°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		
10.	80*10*4 mm		
11.	80*10*4 mm		

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