

LNP™ STAT-KON™ AD000 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON AD000 is a compound based on ABS containing Carbon. Added feature of this grade is: Electrically Conductive.

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

Product reorder name: AD000

General Information			
UL YellowCard	E121562-101343396		
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.22	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.33	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2390	MPa	ASTM D638
--	2310	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	31.2	MPa	ASTM D638
Yield	30.4	MPa	ISO 527-2/5
Break ³	29.1	MPa	ASTM D638
Break	28.7	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.0	%	ASTM D638
Yield	1.6	%	ISO 527-2/5
Break ⁵	6.5	%	ASTM D638
Break	4.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2480	MPa	ASTM D790
-- ⁷	2520	MPa	ISO 178
Flexural Strength ⁸ (Break, 50.0 mm Span)	59.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	25	J/m	ASTM D256
23°C ⁹	2.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	370	J/m	ASTM D4812
23°C ¹⁰	23	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	94.3	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	94.5	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	80.1	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	80.2	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	8.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	8.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	204 to 216	°C	
Processing (Melt) Temp	199 to 210	°C	
Mold Temperature	10.0 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 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		
11.	80*10*4 mm		
12.	80*10*4 mm		

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