

LNP™ STAT-KON™ AD000 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Technical Data

Product Description

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

Filler / Reinforcement	• Carbon Fiber
Features	• Electrically Conductive
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.12 g/cm³	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		
-- ⁴	2390 MPa	ASTM D638
--	2310 MPa	ISO 527-2/1
Tensile Strength		
Yield ⁵	31.2 MPa	ASTM D638
Yield	30.4 MPa	ISO 527-2/5
Break ⁵	29.1 MPa	ASTM D638
Break	28.7 MPa	ISO 527-2/5
Tensile Elongation		
Yield ⁵	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 ⁶ (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 ⁸	2.3 kJ/m²	ISO 180/1A
Unnotched Izod Impact		
23°C	370 J/m	ASTM D4812
23°C ⁸	23 kJ/m²	ISO 180/1U

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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 ⁹	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 ⁹	80.2 °C	ISO 75-2/Af
CLTE		ASTM E831
Flow : -40 to 40°C	0.000080 cm/cm/°C	
Transverse : -40 to 40°C	0.000088 cm/cm/°C	
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6 ohm	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	