

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

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E121562-101343396
Search for UL Yellow Card	• SABIC Innovative Plastics • LNP™ STAT-KON™
Availability	• North America
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	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 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