

LNP™ STAT-KON™ AE002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON AE002 is a compound based on ABS resin containing 10% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound AC-1002

Product reorder name: AE002

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.23	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7650	MPa	ASTM D638
--	7380	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	86.1	MPa	ASTM D638
Yield	82.0	MPa	ISO 527-2/5
Break ³	83.3	MPa	ASTM D638
Break	82.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.5	%	ASTM D638
Yield	1.4	%	ISO 527-2/5
Break ⁵	1.5	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6660	MPa	ASTM D790
-- ⁷	6510	MPa	ISO 178
Flexural Stress			
--	112	MPa	ISO 178
Yield, 50.0 mm Span ⁸	114	MPa	ASTM D790
Break, 50.0 mm Span ⁹	108	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ¹⁰	4.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	230	J/m	ASTM D4812
23°C ¹¹	15	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.70	J	ASTM D3763
--	2.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	105	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	105	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	101	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	101	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 4.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°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.	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.	1.3 mm/min		

10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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