

LNP™ STAT-KON™ AE008XXY compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON AE008XXY is a compound based on ABS resin containing 40% Carbon Fiber. Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound AE008XXY

Product reorder name: AE008XXY

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.17	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	30100	MPa	ASTM D638
--	25300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	143	MPa	ASTM D638
Break	141	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	0.90	%	ASTM D638
Break	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	23700	MPa	ASTM D790
-- ⁵	24700	MPa	ISO 178
Flexural Stress			
--	215	MPa	ISO 178
Break, 50.0 mm Span ⁶	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ⁷	5.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			

23°C	320	J/m	ASTM D4812
23°C ⁸	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.00	J	ASTM D3763
--	2.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	107	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	101	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	101	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	2.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 6.0	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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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