LNP™ STAT-KON™ AE003 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics Europe

Message:

LNP* STAT-KON* AE003 is a compound based on ABS containing 15% Carbon Fiber. Added feature of this grade is: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound AC-1003
Product reorder name: AE003

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 15% filler by weight		
Features	Conductivity		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.10	%	ASTM D955
Transverse flow: 24 hours	0.55	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.19	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.28	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	12800	MPa	ASTM D638
--	11500	MPa	ISO 527-2/1
Tensile Strength			
Fracture [2]	92.0	MPa	ASTM D638
Fracture	93.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture [3]	0.90	%	ASTM D638
Fracture	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0mm span [4]	12600	MPa	ASTM D790
-- [5]	12300	MPa	ISO 178
Flexural Stress			
--	119	MPa	ISO 178
Yield, 50.0mm span [6]	114	MPa	ASTM D790
Fracture, 50.0mm span [7]	95.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	60	J/m	ASTM D256
23°C [8]	5.7	kJ/m²	ISO 180/1A

Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C [9]	16	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.10	J	ASTM D3763
--	2.18	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	105	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [10]	104	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	102	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [11]	104	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	1.9E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	6.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0 - 4.0	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 - 0.10	%	
Rear Temperature	204 - 216	°C	
Middle Temperature	232 - 243	°C	
Front Temperature	266 - 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 - 82.2	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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