LNP™ STAT-KON™ AE002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON AE002 is a compound based on Acrylonitrile Butadiene Styrene resin containg Carbon Fiber. Added features include: Electrically Conductive
Also known as: LNP* STAT-KON* Compound AC-1002
Product reorder name: AE002

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.08	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7400	MPa	ISO 527-2/1
Tensile Stress (Break)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Modulus [1]	5800	MPa	ISO 178
Flexural Stress [2]			ISO 178
-- [3]	77.0	MPa	ISO 178
-- [4]	45.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [5] (23°C)	7.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [6] (23°C)	10	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [7]			
0.45 MPa, unannealed, 64.0mm span	107	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	101	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.7E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 - 1.0E+4	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.	2.0 mm/min
2.	2.0 mm/min
3.	Yield
4.	Break
5.	80*10*4
6.	80*10*4
7.	80*10*4 mm

Recommended distributors for this material

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