

LNP™ STAT-LOY™ A3000 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON A3000 is a compound based on Acrylonitrile Butadiene Styrene resin. Added features of this material include: Antistat.

Also known as: LNP* STAT-LOY* Compound A

Product reorder name: A3000

General Information			
Additive	Antistatic property		
Features	Antistatic property		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	38.0	MPa	ISO 527-2/50
Fracture	29.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.1	%	ISO 527-2/50
Fracture	21	%	ISO 527-2/50
Flexural Modulus ¹	1800	MPa	ISO 178
Flexural Stress	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C)	25	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ³ (23°C)	> 100	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 64.0mm span	90.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	76.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 - 1.0E+12	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 - 0.10	%	

Rear Temperature	182 - 193	°C
Middle Temperature	193 - 204	°C
Front Temperature	204 - 216	°C
Processing (Melt) Temp	199 - 210	°C
Mold Temperature	10.0 - 48.9	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 80*10*4 |
| 3. | 80*10*4 |
| 4. | 80*10*4 mm |

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