

LNP™ STAT-LOY™ A3000 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY A3000 is a compound based on Acrylonitrile butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistatic. Also known as: STAT-LOY A
Also known as: LNP* STAT-LOY* Compound A
Product reorder name: A3000

General Information			
UL YellowCard	E207780-101343872		
Additive	Antistatic property		
Features	Antistatic property		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07	g/cm ³	ASTM D792
--	1.06	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Water Absorption (24 hr, 50% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2060	MPa	ASTM D638
--	2010	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	38.0	MPa	ISO 527-2/5
Fracture ³	36.0	MPa	ASTM D638
Fracture	31.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.1	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Fracture ⁵	6.0	%	ASTM D638
Fracture	24	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	2090	MPa	ASTM D790
-- ⁷	1980	MPa	ISO 178
Flexural Stress			
--	59.0	MPa	ISO 178

Fracture, 50.0mm span ⁸	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	280	J/m	ASTM D256
23°C ⁹	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	32.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	88.0	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹⁰	91.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	76.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹¹	76.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	9.3E-5	cm/cm/°C	ASTM E831
Flow: 23 to 60°C	9.3E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	1.0E-4	cm/cm/°C	ASTM E831
Lateral: 23 to 60°C	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 - 1.0E+11	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.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		

10.	80*10*4 mm
11.	80*10*4 mm

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