

LNP™ STAT-LOY™ A3000T compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY A3000T is a compound based on ABS. Added features of this grade include: Antistatic, Clear.

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

Product reorder name: A3000T

General Information			
Additive	Antistatic		
Features	Antistatic		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.50 to 0.70	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.83	%	ISO 294-4
Flow : 24 hr	0.68	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.80	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1220	MPa	ASTM D638
--	1140	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	32.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/5
Break ³	24.0	MPa	ASTM D638
Break	24.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	39	%	ASTM D638
Break	63	%	ISO 527-2, ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	1480	MPa	ASTM D790
-- ⁶	1420	MPa	ISO 178
Flexural Stress			
--	42.0	MPa	ISO 178
Break, 50.0 mm Span ⁷	42.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ⁸	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	81.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	81.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	87.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	68.0	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.2E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	ASTM D257
Volume Resistivity	9.0 to 11	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	204 to 216	°C	
Processing (Melt) Temp	199 to 210	°C	
Mold Temperature	10.0 to 48.9	°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.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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