

LNP™ STAT-LOY™ A3000TXB compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-LOY A3000TXB is a compound based on ABS resin. Added features of this material include: Antistatic, Transparent. Bioassessed to ISO 10993.

Also known as: LNP* STAT-LOY* Compound A3000TXB

Product reorder name: A3000TXB

General Information			
Additive	Antistatic		
Features	Antistatic		
Agency Ratings	ISO 10993		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.09	g/cm ³	
--	1.08	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.54	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.81	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1660	MPa	ASTM D638
--	1550	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	38.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/5
Break ³	27.0	MPa	ASTM D638
Break	26.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/5
Break ⁵	31	%	ASTM D638
Break	29	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1630	MPa	ASTM D790
-- ⁷	1500	MPa	ISO 178

Flexural Stress			
--	49.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	54.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ⁹	15	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			
23°C, Total Energy	20.0	J	ASTM D3763
--	33.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	78.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	77.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	66.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	66.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.0E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+10 to 1.0E+12	ohms · cm	ASTM D257
Static Decay ¹²	< 1.0	sec	FTMS 101B
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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 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
12.	5000V to <50V

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Recommended distributors for this material

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