

LNP™ STAT-LOY™ A3000T compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP STAT-KON A3000T is a compound based on Acrylonitrile Butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistat.
Also known as: LNP* STAT-LOY* Compound A
Product reorder name: A3000T

General Information			
Additive	Antistatic property		
Features	Antistatic property		
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 hours	0.50 - 0.80	%	ASTM D955
Transverse flow: 24 hours	0.60 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.83	%	ISO 294-4
Flow direction: 24 hours	0.68	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1380	MPa	ASTM D638
--	1140	MPa	ISO 527-2/1
Tensile Strength			
Yield	31.7	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2
Fracture	23.4	MPa	ASTM D638
Fracture	24.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	39	%	ASTM D638
Fracture	63	%	ISO 527-2
Flexural Modulus			
--	1380	MPa	ASTM D790
--	1400	MPa	ISO 178
Flexural Strength			
--	41.4	MPa	ASTM D790
--	42.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	130	J/m	ASTM D256
23°C ²	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	80.6	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ³	81.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	86.7	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	67.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831, 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 - 26.7	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		
4.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 1342475533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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