

# LNP™ STAT-LOY™ 63000CTU compound

Polycarbonate + Polyester  
SABIC Innovative Plastics Asia Pacific

Message:  
A permanent antistatic PC-Alloy compound that features transparency, UV cut, and superior cleanliness for advanced semiconductor packaging applications

General Information			
Features	Antistatic		
	Low (to None) Ion Content		
Uses	Packaging		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow	0.60	%	
Across Flow	0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	1160	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	36.0	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength <sup>3</sup> (Break, 50.0 mm Span)	53.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	69	kJ/m <sup>2</sup>	ISO 179/2C
Notched Izod Impact (23°C)	500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	83.0	°C	
1.8 MPa, Unannealed, 6.40 mm	74.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11 to 5.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+11 to 5.0E+12	ohms · cm	ASTM D257
Static Decay <sup>4</sup>	2.0	sec	FTMS 101B
Optical	Nominal Value	Unit	Test Method

Transmittance (3000 μm)	35.0	%	Internal Method
Haze (2540 μm)	10	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 95.0	°C	
Drying Time	6.0 to 8.0	hr	
Rear Temperature	220 to 230	°C	
Middle Temperature	225 to 240	°C	
Front Temperature	230 to 250	°C	
Nozzle Temperature	230 to 250	°C	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	40.0 to 50.0	°C	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	1.3 mm/min		
4.	5000V to <50V		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

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

