

LNP™ STAT-LOY™ 63000CTC compound

Polycarbonate + Polyester
SABIC Innovative Plastics Asia Pacific

Message:
A permanent antistatic PC-Alloy compound that features transparency 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
Specific Gravity	1.16	g/cm ³	ASTM D792
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			
-- ¹	1170	MPa	ASTM D638
--	1190	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	35.0	MPa	ASTM D638
Yield	34.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	200	%	Internal Method
Break	140	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	1170	MPa	ASTM D790
-- ⁵	1150	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	69	kJ/m ²	ISO 179/2C
Notched Izod Impact (23°C)	580	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	84.0	°C	

1.8 MPa, Unannealed, 6.40 mm	75.0	°C	
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.2E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.4E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.0E+9 to 4.0E+11	ohms	ASTM D257
Volume Resistivity	8.0E+9 to 3.0E+11	ohms·cm	ASTM D257
Static Decay ⁷	2.0	sec	FTMS 101B
Optical	Nominal Value	Unit	Test Method
Transmittance (2540 μm)	77.0	%	ASTM D1003
Haze (2540 μm)	25	%	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.	Type I, 10 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	5000V to <50V		

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