



LNP™ STAT-LOY™ Compound 63000CTC

Asia Pacific: COMMERCIAL

A permanent antistatic PC-Alloy compound that features transparency and superior cleanliness for advanced semiconductor packaging applications

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	350	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	0	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 10 mm/min	0	%	SABIC - Japan Method
Tensile Strain, brk, Type I, 10 mm/min	200	%	SABIC - Japan Method
Tensile Modulus, 50 mm/min	11900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	530	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	11900	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	34	MPa	ISO 527
Tensile Stress, break, 5 mm/min	0	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0	%	ISO 527
Tensile Strain, break, 5 mm/min	140	%	ISO 527
Tensile Modulus, 1 mm/min	1190	MPa	ISO 527
Flexural Modulus, 2 mm/min	1150	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	0	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	59	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	0	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	0	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	69	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	84	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	75	°C	ASTM D 648
CTE, 23°C to 60°C, flow	1.2E-04	1/°C	ISO 11359-2



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THERMAL			
CTE, 23°C to 60°C, xflow	1.4E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	0	°C	ISO 75/Af
PHYSICAL			
Density	1.16	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0	%	ASTM D 570
Mold Shrinkage, flow (5)	0.6	%	SABIC Method
Mold Shrinkage, xflow (5)	0.6	%	SABIC Method
Mold Shrinkage, flow, 24 hrs (5)	0 - 0	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0 - 0	%	ASTM D 955
Density	0	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.7	%	ISO 62
OPTICAL			
Light Transmission, 2.54 mm	77	%	ASTM D 1003
Haze, 2.54 mm	25	%	ASTM D 1003
ELECTRICAL			
Volume Resistivity	8.E+09 - 3.E+11	Ohm-cm	ASTM D 257
Surface Resistivity	9.E+09 - 4.E+11	Ohm	ASTM D 257
Static Decay, 5000V to <50V	2	< seconds	FTMS101B
Surface Resistivity, ROA	0.E+00 - 0.E+00	Ohm	IEC 60093



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	90 - 95	°C
Drying Time	6 - 8	hrs
Melt Temperature	230 - 250	°C
Nozzle Temperature	230 - 250	°C
Front - Zone 3 Temperature	230 - 250	°C
Middle - Zone 2 Temperature	225 - 240	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	40 - 50	°C