



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

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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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/cm³	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/cm³	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

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