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SANHOTAI ENTERPRISE CO., LTD

NO. 104, WUGONG 2ND ROAD, WUGU DISTRICT, NEW TAIPEI CITY 248

## The following test reports/information were submitted and identified by the applicant as :

Sample Description

: HOUSING

Style/Item No.

: GL-601L, 601S, 601SS, 602A, 603, 604, 605, 605S, 605A, 606, 606S, 607, 610, 614, 617, 618, 618P, 619, 620, 621, 624, 625, 626, 627, 628, 629, 630, GL-601HB, GL-604HB, GL-605IR, 605HB, GL-606HB, GL-607HB, GL-614HB, GL-617HB, GL-618IR, 618HB, 619HB, GL-620HB, GL-621HB, GL-624HB, GL-625HB,

GL-618IR, 618HB, 619HB, GL-620HB, GL-621HB, GL-624HB, GL-628 GL-626HB, GL-627HB, GL-628HB, GL-629HB, GL-630HB

**Testing Period** 

2012/06/29 TO 2014/01/13

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**Test Results** : Please refer to next page(s).

\* This report is combined with 25 copies of test reports which provided by client. \*

Edison Chang/Sr. Supervisor Signed for and on Dehalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei

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### Test Result(s)

PART NAME No.1 : 銀色 SECC鍍鋅鋼板 (KC/2013/C0088)

PART NAME No.2 : SILVER COLORED METAL (CE/2013/80343)
PART NAME No.3 : SILVER COLORED METAL (CE/2013/74127)
PART NAME No.4 : SILVER COLORED METAL (CE/2013/10456)
PART NAME No.5 : SILVER COLORED METAL (CE/2013/36607)
PART NAME No.6 : SILVER COLORED METAL (CE/2013/55653)

PART NAME No.7 : SILVER AA 6063 (KC/2012/60271)
PART NAME No.8 : BLACK EVA (KE/2013/C1394)
PART NAME No.9 : BLACK RUBBER (CE/2013/75147)

PART NAME No.10 : RED-BROWN RUBBER (CE/2013/11925)

PART NAME No.11 : BLACK FOAM ( § 19\*19m/m) (CE/2013/16705)

PART NAME No.12 : DK. PURPLE LIQUID (SAMPLE IS MIXED BY CLIENT) (CE/2012/C3285)

PART NAME No.13 : PURPLE INK (SAMPLE IS MIXED BY CLIENT) (CE/2013/36671)

PART NAME No.14 : TRANSPARENT-GREEN LIQUID (CE/2013/80096)

PART NAME No.15 : PLATING LAYER OF SILVER COLORED METAL (CE/2013/C2610 No.1)

PART NAME No.16 : PLATING LAYER OF SILVERY BLUE METAL (CE/2013/63986)

PART NAME No.17 : PLATING LAYER OF SILVER COLORED METAL SCREW (CE/2014/10311)
PART NAME No.18 : BASE MATERIAL OF SILVER COLORED METAL SCREW (CE/2014/10312)

PART NAME No.19 : MIXED ALL PARTS (CE/2014/11454)

PART NAME No.20 : MIXED ALL PLATING LAYER OF SILVER COLORED METAL (4 KINDS) (CE/2012/B2667)

PART NAME No.21 : PLATING LAYER OF SILVER GRAY METAL (CE/2013/C2294)

PART NAME No.22 : IVORY PLASTIC (CE/2013/35236A)

PART NAME No.23 : PLATING LAYER OF SILVER COLORED METAL (CE/2013/35288)

PART NAME No.24 : GOLDEN COLORED METAL (CE/2013/35332)

PART NAME No.25 : MIXED BLUE, BLACK, ORANGE, GRAY, GREEN AND RED PLASTIC (CE/2013/22277)

Test Item(s)	Unit	Method	MDL	Result						
rest item(s)	Unit	Wethod	MIDL	No.1	No.2	No.3	No.4	No.5		
Cadmium (Cd)		With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.					
		With reference to IEC 62321: 2008 and performed by ICP-AES.	2			3	3	n.d.		

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Took Hom/o)	Unit	Method	MDL			Result		
Test Item(s)	Unit	Wethod	MIDL	No.1	No.2	No.3	No.4	No.5
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	23			
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2			210	358	230
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	n.d.			
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2			n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	Negative	Negative	Negative	Negative
Sum of PBBs			-	n.d.				
Monobromobiphenyl			5	n.d.				
Dibromobiphenyl			5	n.d.				
Tribromobiphenyl			5	n.d.				
Tetrabromobiphenyl		With reference to IEC	5	n.d.				
Pentabromobiphenyl	mg/kg	62321: 2008 and performed	5	n.d.				
Hexabromobiphenyl		by GC/MS.	5	n.d.				
Heptabromobiphenyl			5	n.d.				
Octabromobiphenyl			5	n.d.				
Nonabromobiphenyl			5	n.d.				
Decabromobiphenyl			5	n.d.				

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Tool Hom(o)	I Incia	Method	MDI	Result						
Test Item(s)	Unit	Wethod	MDL	No.1	No.2	No.3	No.4	No.5		
Sum of PBDEs			-	n.d.						
Monobromodiphenyl ether	1		5	n.d.						
Dibromodiphenyl ether	1	With reference to IEC	5	n.d.						
Tribromodiphenyl ether	1		5	n.d.						
Tetrabromodiphenyl ether	1		5	n.d.						
Pentabromodiphenyl ether	mg/kg	62321: 2008 and performed	5	n.d.						
Hexabromodiphenyl ether	1	by GC/MS.	5	n.d.						
Heptabromodiphenyl ether	1		5	n.d.						
Octabromodiphenyl ether	1		5	n.d.						
Nonabromodiphenyl ether	1		5	n.d.						
Decabromodiphenyl ether	1		5	n.d.						

Took Itam/a)	1110:4	Mathad	MDI			Result		
Test Item(s)	Unit	Method	MDL	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.		n.d.	n.d.
	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2			n.d.		
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	11	13		5	n.d.
	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2			n.d.		
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.		n.d.	n.d.
	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2			n.d.		

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Test Item(s)	Unit	Method	MDL	No.6	No.7	No.8	No.9	No.10
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative				
	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 8)	0.02mg/kg with 50 cm² surface area		Negative			
	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2			n.d.	n.d.	n.d.
Sum of PBBs			-			n.d.	n.d.	n.d.
Monobromobiphenyl			5			n.d.	n.d.	n.d.
Dibromobiphenyl			5			n.d.	n.d.	n.d.
Tribromobiphenyl		5 5 5 5	5			n.d.	n.d.	n.d.
Tetrabromobiphenyl					n.d.	n.d.	n.d.	
Pentabromobiphenyl			5			n.d.	n.d.	n.d.
Hexabromobiphenyl			5			n.d.	n.d.	n.d.
Heptabromobiphenyl			5			n.d.	n.d.	n.d.
Octabromobiphenyl			5			n.d.	n.d.	n.d.
Nonabromobiphenyl			5			n.d.	n.d.	n.d.
Decabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed	5			n.d.	n.d.	n.d.
Sum of PBDEs	ilig/kg	by GC/MS.	-			n.d.	n.d.	n.d.
Monobromodiphenyl ether		ly come.	5			n.d.	n.d.	n.d.
Dibromodiphenyl ether			5			n.d.	n.d.	n.d.
Tribromodiphenyl ether			5			n.d.	n.d.	n.d.
Tetrabromodiphenyl ether			5			n.d.	n.d.	n.d.
Pentabromodiphenyl ether			5			n.d.	n.d.	n.d.
Hexabromodiphenyl ether	1		5			n.d.	n.d.	n.d.
Heptabromodiphenyl ether	1		5			n.d.	n.d.	n.d.
Octabromodiphenyl ether	1		5			n.d.	n.d.	n.d.
Nonabromodiphenyl ether	1		5			n.d.	n.d.	n.d.
Decabromodiphenyl ether	1		5			n.d.	n.d.	n.d.

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Took Itam/a)	l lm!s	Method	MDI			Result		
Test Item(s)	Unit	Wethod	MDL	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.		
	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2				n.d.	
	mg/kg	IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2					n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.		
	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2				n.d.	
	mg/kg	IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2					n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.		
	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2				n.d.	
	mg/kg	IEC 62321-4: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2					n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	n.d.	
	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#					Negative

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Tast Ham(s)	1110:4	Method	MDL			Result		
Test Item(s)	Unit	Wethod	MDL	No.11	No.12	No.13	No.14	No.15
Sum of PBBs			-	n.d.	n.d.	n.d.		
Monobromobiphenyl			5	n.d.	n.d.	n.d.		
Dibromobiphenyl			5	n.d.	n.d.	n.d.		
Tribromobiphenyl			5	n.d.	n.d.	n.d.		
Tetrabromobiphenyl			5	n.d.	n.d.	n.d.		
Pentabromobiphenyl			5	n.d.	n.d.	n.d.		
Hexabromobiphenyl			5	n.d.	n.d.	n.d.		
Heptabromobiphenyl			5	n.d.	n.d.	n.d.		
Octabromobiphenyl			5	n.d.	n.d.	n.d.		
Nonabromobiphenyl		With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	n.d.	n.d.		
Decabromobiphenyl			5	n.d.	n.d.	n.d.		
Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.		
Monobromodiphenyl ether		by GO/MG.	5	n.d.	n.d.	n.d.		
Dibromodiphenyl ether			5	n.d.	n.d.	n.d.		
Tribromodiphenyl ether			5	n.d.	n.d.	n.d.		
Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Octabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.		
Decabromodiphenyl ether			5	n.d.	n.d.	n.d.		

Took Itom/o)	l lm!4	Method	MDL	Result						
Test Item(s)	Unit			No.16	No.17	No.18	No.19	No.20		
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	4				n.d.		
	mg/kg	IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2		n.d.	n.d.				

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Toot Itom(a)	Unit	Method	MDL			Result		
Test Item(s)	Unit	wethod	MDL	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2				n.d.	
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	15				n.d.
	mg/kg	IEC 62321-5: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2		n.d.	n.d.		
	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2				n.d.	
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.				n.d.
	mg/kg	IEC 62321-4: 2013 application of modified digestion by surface etching and performed by ICP-AES.	2		n.d.	n.d.		
	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2				n.d.	
Hexavalent Chromium Cr(VI)	mg/kg	With reference to BS EN ISO 3613:2001 for Hexavalent Chromium for metallic samples. Analysis was performed by UV-VIS Spectrometry.	- (See Note 9)	n.d.				
	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#		Negative	Negative	Negative	Negative

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Toot Hom/o)	I In:	Mothod	MDI			Result		
Test Item(s)	Unit	Method	MDL	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.		n.d.		
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2		n.d.		n.d.	n.d.
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	29		30		
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2		n.d.		18	n.d.
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.		n.d.		
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2		n.d.		n.d.	n.d.
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative		Negative	Negative	
	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2		n.d.			n.d.

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Took Home(a)	l lm it	Mathad	MDI			Result		
Test Item(s)	Unit	Method	MDL	No.21	No.22	No.23	No.24	No.25
Sum of PBBs			-		n.d.			n.d.
Monobromobiphenyl			5		n.d.			n.d.
Dibromobiphenyl			5		n.d.			n.d.
Tribromobiphenyl			5		n.d.			n.d.
Tetrabromobiphenyl			5		n.d.			n.d.
Pentabromobiphenyl			5		n.d.			n.d.
Hexabromobiphenyl			5		n.d.			n.d.
Heptabromobiphenyl			5		n.d.			n.d.
Octabromobiphenyl			5		n.d.			n.d.
Nonabromobiphenyl			5		n.d.			n.d.
Decabromobiphenyl		With reference to IEC	5		n.d.			n.d.
Sum of PBDEs	mg/kg	62321: 2008 and performed by GC/MS.	-		n.d.			n.d.
Monobromodiphenyl ether		by GG/MG.	5		n.d.			n.d.
Dibromodiphenyl ether			5		n.d.			n.d.
Tribromodiphenyl ether			5		n.d.			n.d.
Tetrabromodiphenyl ether			5		n.d.			n.d.
Pentabromodiphenyl ether			5		n.d.			n.d.
Hexabromodiphenyl ether			5		n.d.			n.d.
Heptabromodiphenyl ether	1		5		n.d.			n.d.
Octabromodiphenyl ether	1		5		n.d.			n.d.
Nonabromodiphenyl ether	1		5		n.d.			n.d.
Decabromodiphenyl ether	1		5		n.d.			n.d.

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#### Note:

- 1. mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. "---" = Not Conducted
- 6. \*\* = Qualitative analysis (No Unit)
- 7. # = a. Positive means the presence of CrVI on the tested areas
  - b. Negative means the absence of CrVI on the tested areas

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas.

8. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the

spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm2 sample surface area.

- 9. Method Detection Limit =  $0.02 \,\mu\text{g/cm}^2$ ; Based upon the customer's requirement and information to calculate the coating thickness, the unit of the test result was conversed into mg/kg.
- 10. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.
- 11. This report supersedes the previous document bearing the test report number CS/2014/50003 which was issued on 2014/05/29.

\*\* End of Report \*\*

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