

Survey Report

No. : CS/2008/20041

Date : 2008/03/04

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HSUAN MAO TECHNOLOGY CO., LTD.

8F, NO:111, HSING DE ROAD, SAN CHUNG CITY, TAIPEI HSIEN,
TAIWAN, R. O. C.



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

Sample Description	:	HOUSING, WAFER, TERMINAL
Style/Item No.	:	H1025, H1026, H1252, H1253, H1257, H1500, H2003, H2006, H2008, H2410, H2430, H2440, H2481, H2510, H2560, H5080, H7000, H7500, T1025, T1026, T1253, T1500, T2008, W1600, W2103, W2109, W2400, W2491, W2600, W2660, W4508, W6750, W7600
Testing Period	:	2008/02/19 TO 2008/02/19

Test Result(s) : Please refer to next page(s).

This report is combined with 11 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client.



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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8F, NO:111, HSING DE ROAD, SAN CHUNG CITY, TAIPEI HSIEN,

TAIWAN, R. O. C.



Test Result(s)

PART NAME NO.1	:	WHITE PLASTIC (CE/2008/23092 NO.1)
PART NAME NO.2	:	SILVER COLORED METAL (INCLUDING THE PLATING LAYER) (CE/2008/23092 NO.2)
PART NAME NO.3	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (CE/2008/23092 NO.3)
PART NAME NO.4	:	LT. YELLOW PLASTIC (CE/2008/23104 NO.1)
PART NAME NO.5	:	SILVER COLORED METAL (INCLUDING THE PLATING LAYER) (CE/2008/23104 NO.2)
PART NAME NO.6	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER NO.3)
PART NAME NO.7	:	BEIGE PLASTIC (CE/2008/23106 NO.1)
PART NAME NO.8	:	SILVER COLORED METAL (INCLUDING THE PLATING LAYER) (CE/2008/23106 NO.2)
PART NAME NO.9	:	SILVER COLORED META PIN (INCLUDING THE PLATING LAYER) (CE/2008/23106 NO.3)
PART NAME NO.10	:	WHITE PLASTIC (CE/2008/23115)
PART NAME NO.11	:	WHITE PLASTIC (CE/2008/23116 NO.1)
PART NAME NO.12	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (CE/2008/23116 NO.2)
PART NAME NO.13	:	COFFER PLASTIC (CE/2008/23124 NO.1)
PART NAME NO.14	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (CE/2008/23124 NO.2)
PART NAME NO.15	:	WHITE PLASTIC (CE/2008/23126 NO.1)
PART NAME NO.16	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (CE/2008/23126 NO.2)
PART NAME NO.17	:	TRANSLUCENT-WHITE PLASTIC (CE/2008/23127 NO.1)
PART NAME NO.18	:	SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (CE/2008/23127 NO.2)
PART NAME NO.19	:	SILVER COLORED METAL TERMINAL (INCLUDING THE PLATING LAYER) (CE/2008/23134)
PART NAME NO.20	:	SILVER COLORED/BRASS METAL TERMINAL (INCLUDING THE PLATING LAYER) (CE/2008/23144)
PART NAME NO.21	:	MIXED BLACK, DK. BLUE, DK. RED AND DK. YELLOWISH BROWN POWDER (CE/2008/23147)

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	---	Negative	Negative	---	Negative
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.	---	---	n.d.	---

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TAIWAN, R. O. C.



Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	9	7	15	n.d.	74

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Monobromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.	---	---	n.d.	---
Dibromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Tribromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Tetrabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Pentabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Hexabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Heptabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Octabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Nonabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Decabromobiphenyl	mg/kg		5	n.d.	---	---	n.d.	---
Sum of PBBs	mg/kg		-	n.d.	---	---	n.d.	---
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.	---	---	n.d.	---
Dibromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Tribromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Tetrabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Pentabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Hexabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Heptabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Octabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Nonabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Decabromobiphenyl ether	mg/kg		5	n.d.	---	---	n.d.	---
Sum of PBDEs (Mono to Deca)	mg/kg		-	n.d.	---	---	n.d.	---
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg		-	n.d.	---	---	n.d.	---

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	Negative	---	Negative	Negative	---

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Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	---	n.d.	---	---	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	15	n.d.	26	18	12

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Monobromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	---	n.d.	---	---	n.d.
Dibromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Tribromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Tetrabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Pentabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Hexabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Heptabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Octabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Nonabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Decabromobiphenyl	mg/kg		5	---	n.d.	---	---	n.d.
Sum of PBBs	mg/kg		-	---	n.d.	---	---	n.d.
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	---	n.d.	---	---	n.d.
Dibromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Tribromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Tetrabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Pentabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Hexabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Heptabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Octabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Nonabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Decabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	n.d.
Sum of PBDEs (Mono to Deca)	mg/kg		-	---	n.d.	---	---	n.d.
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg		-	---	n.d.	---	---	n.d.

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Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	---	Negative	---	Negative	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.	---	n.d.	---	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	6	n.d.	7	27

Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Monobromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.	---	n.d.	---	n.d.
Dibromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Tribromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Octabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Decabromobiphenyl	mg/kg		5	n.d.	---	n.d.	---	n.d.
Sum of PBBs	mg/kg		-	n.d.	---	n.d.	---	n.d.
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.	---	n.d.	---	n.d.
Dibromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Tribromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Tetrabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Pentabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Hexabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Heptabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Octabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Nonabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Decabromobiphenyl ether	mg/kg		5	n.d.	---	n.d.	---	n.d.
Sum of PBDEs (Mono to Deca)	mg/kg		-	n.d.	---	n.d.	---	n.d.
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg		-	n.d.	---	n.d.	---	n.d.

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TAIWAN, R. O. C.



Test Item(s):	Unit	Method	MDL	Result				
				NO.16	NO.17	NO.18	NO.19	NO.20
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	Negative	---	Negative	Negative	Negative
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	---	n.d.	---	---	---
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	29	n.d.	n.d.	17	53

Test Item(s):	Unit	Method	MDL	Result				
				NO.16	NO.17	NO.18	NO.19	NO.20
Monobromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	---	n.d.	---	---	---
Dibromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Tribromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Tetrabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Pentabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Hexabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Heptabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Octabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Nonabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Decabromobiphenyl	mg/kg		5	---	n.d.	---	---	---
Sum of PBBs	mg/kg		-	---	n.d.	---	---	---
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	---	n.d.	---	---	---
Dibromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Tribromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Tetrabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Pentabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Hexabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Heptabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Octabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Nonabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Decabromobiphenyl ether	mg/kg		5	---	n.d.	---	---	---
Sum of PBDEs (Mono to Deca)	mg/kg		-	---	n.d.	---	---	---
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg		-	---	n.d.	---	---	---

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TAIWAN, R. O. C.



Test Item(s):	Unit	Method	MDL	Result NO.21
Monobromobiphenyl	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.
Dibromobiphenyl ether	mg/kg		5	n.d.
Tribromobiphenyl ether	mg/kg		5	n.d.
Tetrabromobiphenyl ether	mg/kg		5	n.d.
Pentabromobiphenyl ether	mg/kg		5	n.d.
Hexabromobiphenyl ether	mg/kg		5	n.d.
Heptabromobiphenyl ether	mg/kg		5	n.d.
Octabromobiphenyl ether	mg/kg		5	n.d.
Nonabromobiphenyl ether	mg/kg		5	n.d.
Decabromobiphenyl ether	mg/kg		5	n.d.
Sum of PBDEs (Mono to Deca)	mg/kg		-	n.d.
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg		-	n.d.

Test Item(s):	Unit	Method	MDL	Result NO.21
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-	2	n.d.

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Test Item(s):	Unit	Method	MDL	Result
				NO.21
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-	2	n.d.

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. 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.

6. "---" = Not Conducted

7. " - " = Not Regulated

8. ** = Qualitative analysis (No Unit)

** End of Report **