

測試報告

Test Report

號碼(No.): CE/2010/B4063

日期(Date): 2010/11/25

頁數(Page): 1 of 6

磊巨金屬有限公司

LEI GIU METAL CO., LTD.

彰化縣彰化市彰興路一段189號

NO. 189, SEC. 1, JHANGSING RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):


樣品名稱(Sample Description) : 識別夾
 收件日期(Sample Receiving Date) : 2010/11/19
 測試期間(Testing Period) : 2010/11/19 TO 2010/11/25

測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求。 (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考IEC 62321: 2008方法檢測。 (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 酸洗脫鍍層，以感應耦合電漿原子發射光譜儀檢測鎘含量。 / Application of modified digestion by surface etching, determination of Cadmium by ICP-AES.
- (2) 酸洗脫鍍層，以感應耦合電漿原子發射光譜儀檢測鉛含量。 / Application of modified digestion by surface etching, determination of Lead by ICP-AES.
- (3) 酸洗脫鍍層，以感應耦合電漿原子發射光譜儀檢測汞含量。 / Application of modified digestion by surface etching, determination of Mercury by ICP-AES.
- (4) 以Spot test / boiling water extraction方法檢測六價鉻含量。 / Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / Determination of PBB and PBDE by GC/MS.

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


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

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NO. 189, SEC. 1, JHANGSING RD., CHANGHUA CITY, CHANGHUA COUNTY 500, TAIWAN (R. O. C.)



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4
多溴聯苯總和 / Sum of PBBs	(5)	n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	5
五溴聯苯 / Pentabromobiphenyl		n.d.	5
六溴聯苯 / Hexabromobiphenyl		n.d.	5
七溴聯苯 / Heptabromobiphenyl		n.d.	5
八溴聯苯 / Octabromobiphenyl		n.d.	5
九溴聯苯 / Nonabromobiphenyl		n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	5
多溴聯苯醚總和 / Sum of PBDEs		n.d.	-
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5
九溴聯苯醚 / Nonabromodiphenyl ether	n.d.	5	
十溴聯苯醚 / Decabromodiphenyl ether	n.d.	5	

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測試部位描述 (TEST PART DESCRIPTION):

No.1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未檢出)

3. MDL = Method Detection Limit (方法偵測極限值)

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed. (當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area. / 該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

5. "-" = Not Regulated (無規格值)

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LEI GIU METAL CO., LTD.

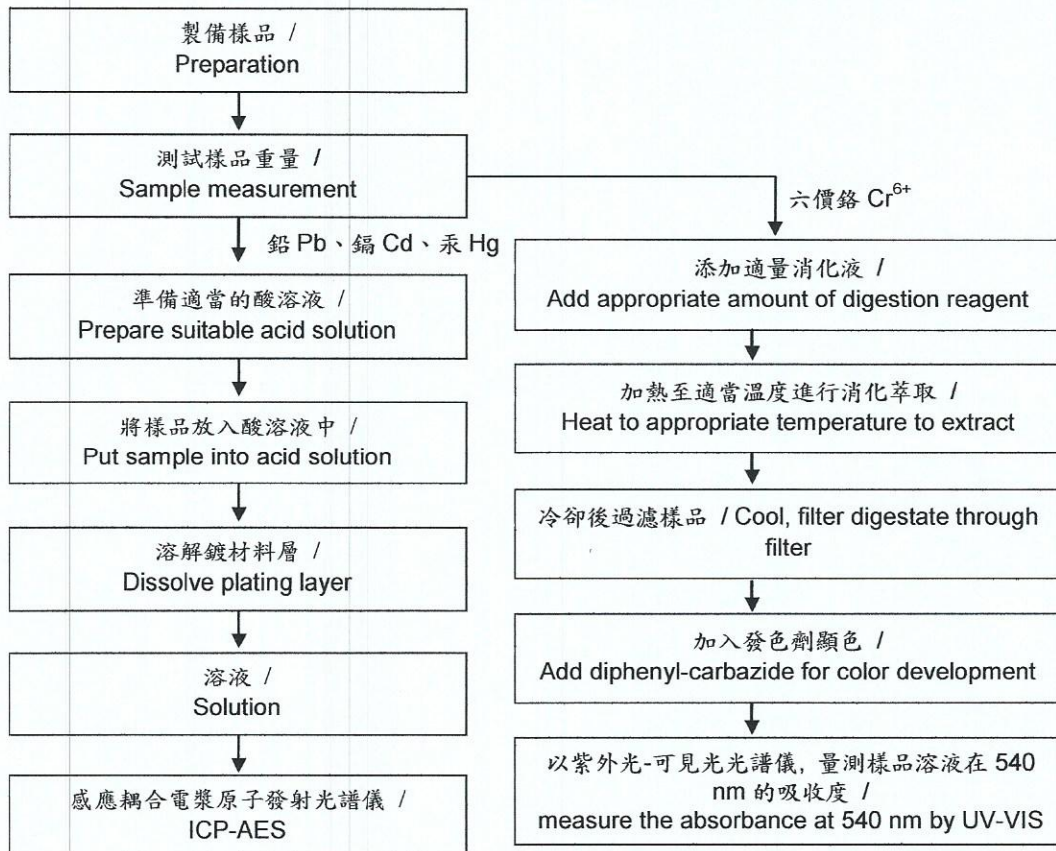
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis



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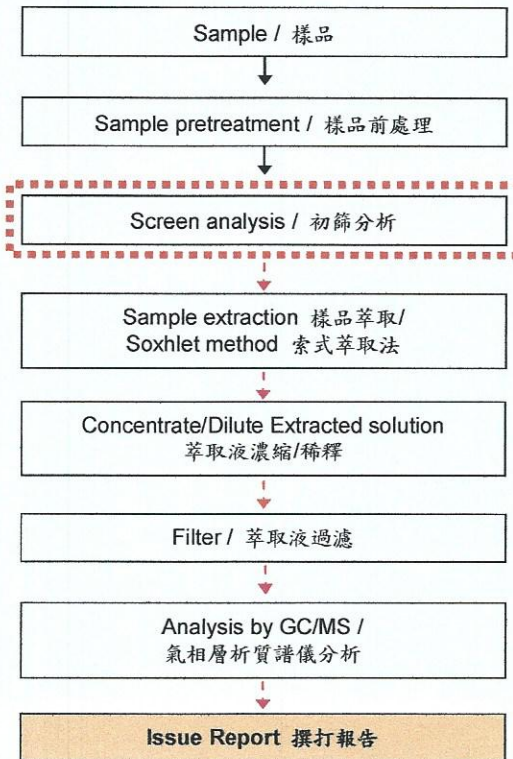
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process —————>

選擇性篩檢程序 / Optional screen process>

確認程序 / Confirmation process - - - ->



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** 報告結尾(End of Report) **

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測試報告 Test Report

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美岳企業有限公司

MEI YUEN ADHESIVE TAPE CO., LTD.

23452台北縣永和市成功路一段117巷1弄11號

NO. 11. ALLEY ALLEY 1 LANE 117, SEC 1. CHENG KUNG RD., YANG HO CITY, TAIPEI

HSIEN. TAIWAN. R. O. C.



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : DOUBLE SIDE TAPE
樣品型號(Style/Item No.) : HDS-2 HDS-1 DS-1
收件日期(Sample Receiving Date) : 2009/02/23
測試期間(Testing Period) : 2009/02/23 TO 2009/03/02

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Shin-Jyh Chen
Shinjyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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MEI YUEN ADHESIVE TAPE CO., LTD.

23452台北縣永和市成功路一段117巷1弄11號

NO. 11. ALLEY ALLEY 1 LANE 117, SEC 1. CHENG KUNG RD., YANG HO CITY, TAIPEI

HSIEN. TAIWAN. R. O. C.



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 透明雙面膠 (不包括離形紙) (TRANSPARENT TWIN TAPE (EXCLUDING THE RELEASE PAPER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
可塑劑定量分析 / Phthalates				
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸丁酯苯甲酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	本測試參考EN 14372: 2004, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372: 2004. Analysis was performed by GC/MS.	0.01	n.d.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)

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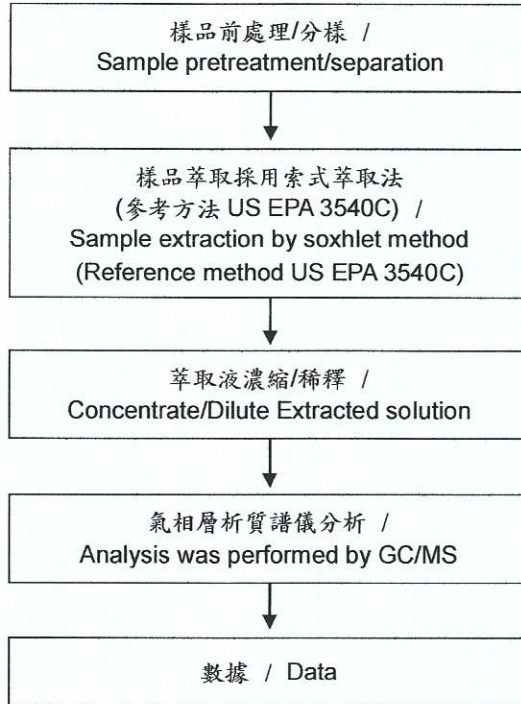
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 1) 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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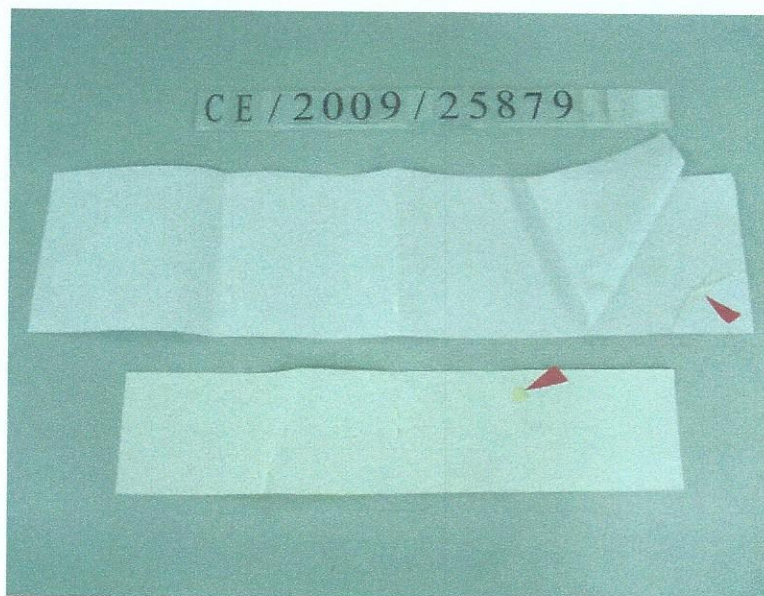
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