

測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 1 of 11

豪訊實業有限公司

HAU SHIUNN ENTERPRISE CO., LTD.

高雄市大樹區竹寮211號

NO.211, CHU LIAO RD., CHU LIAO, TA-SHU, KAOHSIUNG CITY, TAIWAN

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)	:	HOUSING-H6503,H6504,H6236,SR-5P,SR-5PK
樣品型號(Style/Item No.)	:	PA66(BLACK)
收件日期(Sample Receiving Date)	:	2013/06/24
測試期間(Testing Period)	:	2013/06/24 TO 2013/06/28
送樣廠商(Sample Submitted By)	:	豪訊實業有限公司 (HAU SHIUNN ENTERPRISE CO., LTD.)

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



Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited

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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 2 of 11

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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黑色 HOUSING-H6503,H6504,H6236,SR-5P,SR-5PK (BLACK HOUSING-

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
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.

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測試報告

Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 3 of 11

豪訊實業有限公司

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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
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	參考US EPA 3540C: 1996方法, 以氣相層析質譜儀檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/MS.	5	n.d.

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測試報告

Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 4 of 11

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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
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	本測試參考EN 14372, 以氣相層析儀/ 質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	本測試參考EN 14372, 以氣相層析儀/ 質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	本測試參考EN 14372, 以氣相層析儀/ 質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 5 of 11

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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)

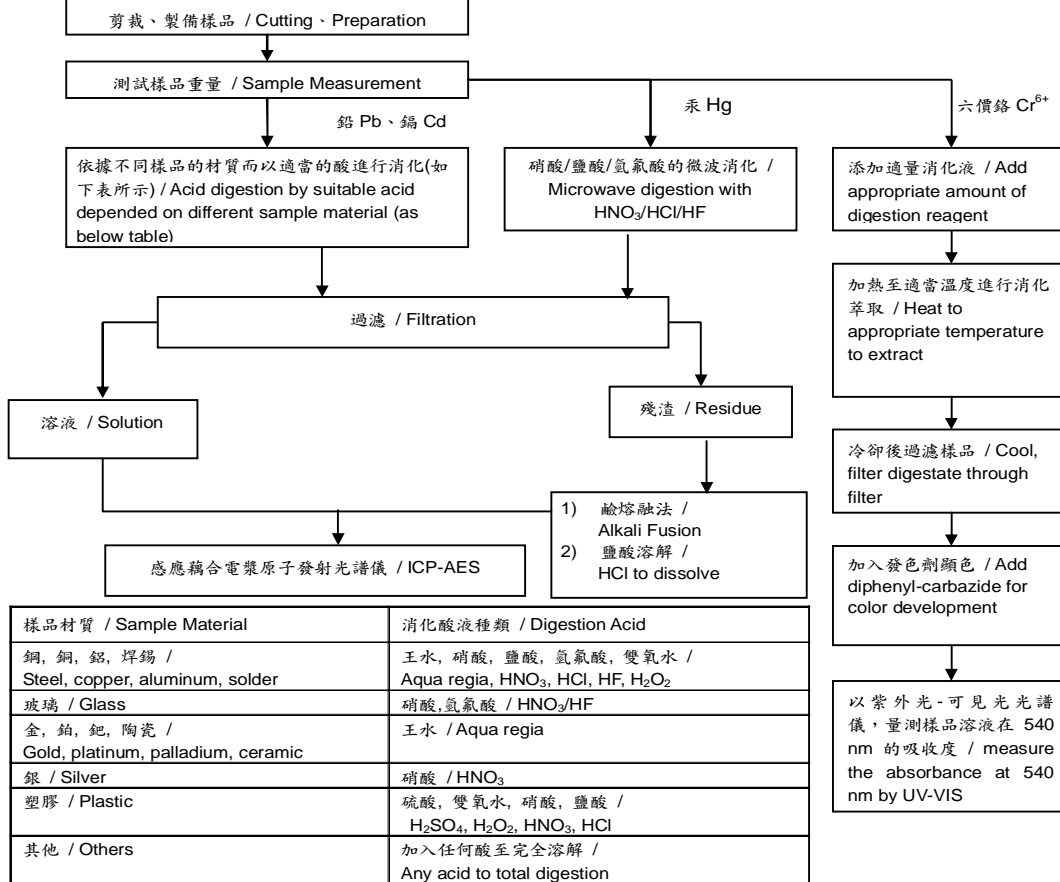
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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 6 of 11

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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：張俊雄 / Name of the person who made measurement: Alex Chang
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90–95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90–95°C.
(2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 7 of 11

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NO.211, CHU LIAO RD., CHU LIAO, TA-SHU, KAOHSIUNG CITY, TAIWAN

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

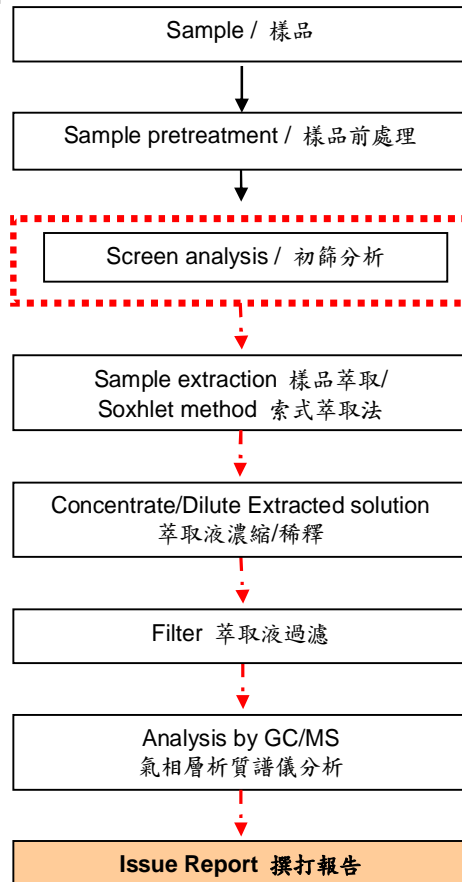
1) 測試人員：曹嘉琪 / Name of the person who made measurement: Anson Tsao

2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray 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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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 8 of 11

豪訊實業有限公司

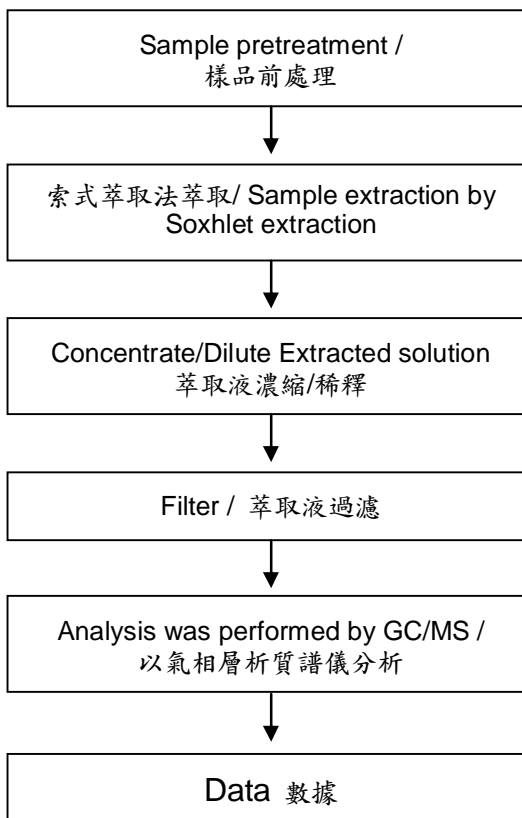
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六溴環十二烷分析流程圖 / HBCDD Analytical FLOW CHART

- 1) 測試人員：曹嘉琪/ Name of the person who made measurement: Anson Tsao
- 2) 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 9 of 11

豪訊實業有限公司

HAU SHIUNN ENTERPRISE CO., LTD.

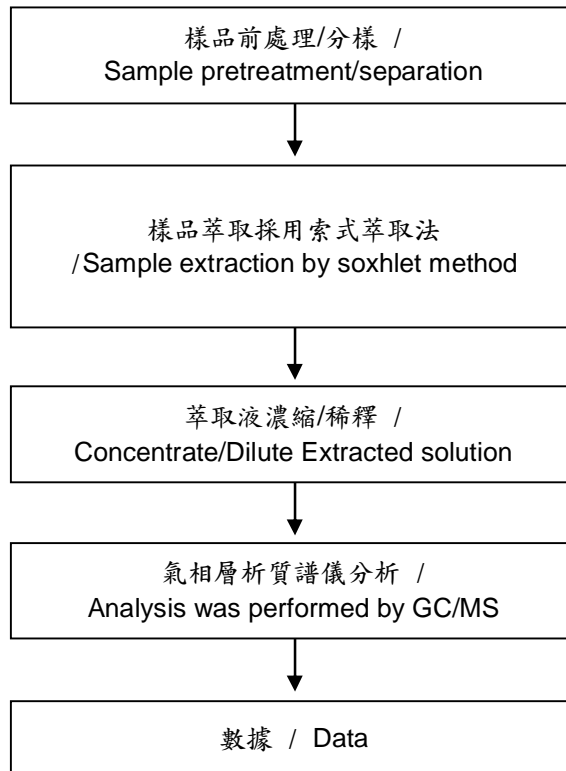
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NO.211, CHU LIAO RD., CHU LIAO, TA-SHU, KAOHSIUNG CITY, TAIWAN

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

1)測試人員：曹嘉琪 / Name of the person who made measurement: Anson Tsao

2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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測試報告 Test Report

號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 10 of 11

豪訊實業有限公司

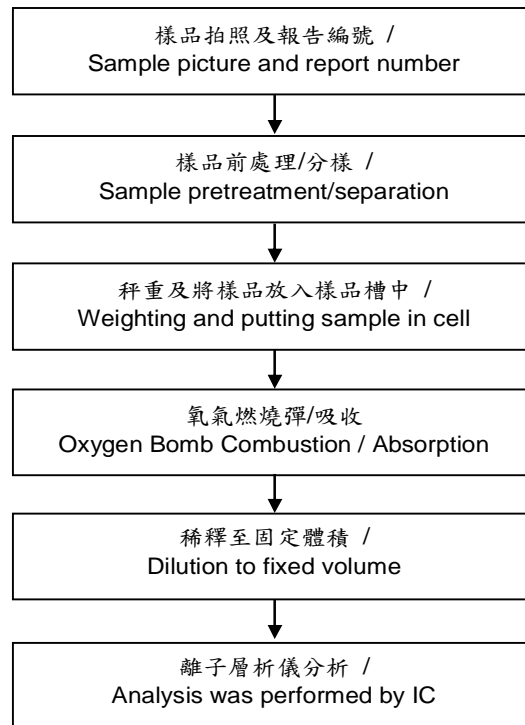
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NO.211, CHU LIAO RD., CHU LIAO, TA-SHU, KAOHSIUNG CITY, TAIWAN

鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：洪秀真 / Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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號碼(No.) : KA/2013/61016 日期(Date) : 2013/06/28 頁數(Page) : 11 of 11

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HAU SHIUNN ENTERPRISE CO., LTD.

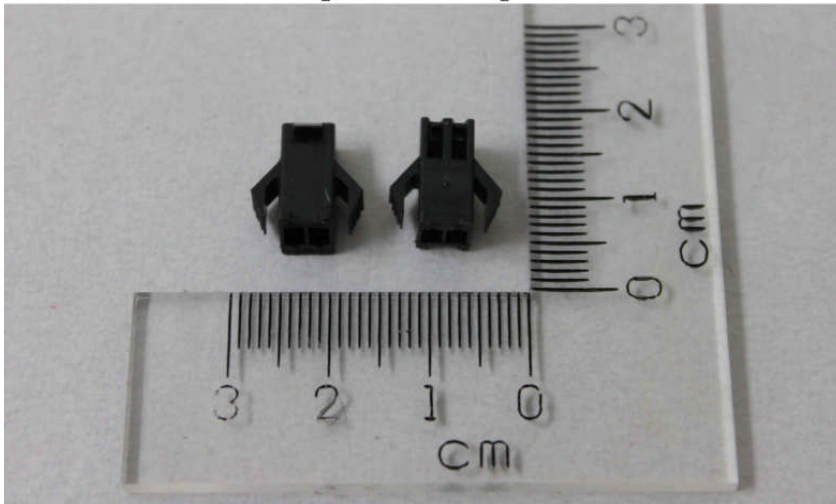
高雄市大樹區竹寮211號

NO.211, CHU LIAO RD., CHU LIAO, TA-SHU, KAOHSIUNG CITY, TAIWAN

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2013/61016



** 報告結尾(End of Report) **