

測試報告 Test Report

號碼(No.) : KA/2013/51181 日期(Date) : 2013/05/27

頁數(Page): 1 of 6

台灣日邦樹脂股份有限公司/日邦樹脂(無錫)有限公司
TAIWAN FIRST LI-BOND CO., LTD./ LI-BOND RESIN (WUXI) CO., LTD.
嘉義縣民雄工業區中正路13號/江蘇無錫錫山經濟開發區春雷路6號
NO. 13 CHUNG CHENG RD. MIN HSUING INDUSTRIAL AREA CHIA-YI, TAIWAN, R. O. C.
NO.6 CHUNLEI ROAD XISHAN ECONOMIC DEVELOPMENT ZONE, WUXI

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) : 熱熔膠 (HOT MELT ADHESIVE)
樣品型號(Style/Item No.) : 2105/2105-1/2105-2/1061/2061/1041/2041/1105/1161/1021/1131/1631S/2201/
GS130S/GS130L/GS108-2L/GS108-3L/2503-4/2522-1/2502/2616/2619-1/9041/
9105/2209/P2609/P2632/2000-1/2562-1/2552/2516/1051/2616-1/2105-3/2106/
2502-1/XH793/2792/2017/2633/2513-1/2513-2/1181/1081/2300
收件日期(Sample Receiving Date) : 2013/05/21
測試期間(Testing Period) : 2013/05/21 TO 2013/05/27
送樣廠商(Sample Submitted By) : 台灣日邦樹脂股份有限公司 (TAIWAN FIRST LI-BOND CO., LTD.)

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測試需求(Test Requested) : 依據客戶要求，參考RoHS 2011/65/EU Annex II 指令進行鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚測試。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
測試方法(Test Method) : 請見下一頁 (Please refer to next pages).
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).
結論(Conclusion) : 根據客戶所提供的樣品，其鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚的測試結果符合RoHS指令2002/95/EC的更新指令2011/65/EU之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)


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/2013/51181 日期(Date) : 2013/05/27

頁數(Page): 2 of 6

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色 HOT MELT ADHESIVE (WHITE HOT MELT ADHESIVE)

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)	法規 限值 (Limit)
				No.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿 原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP- AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿 原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP- AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿 原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP- AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/質譜 儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	5	n.d.	-	

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測試報告

Test Report

號碼(No.) : KA/2013/51181 日期(Date) : 2013/05/27

頁數(Page): 3 of 6

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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)	法規 限值 (Limit)
				No.1	
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/質譜 儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	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)

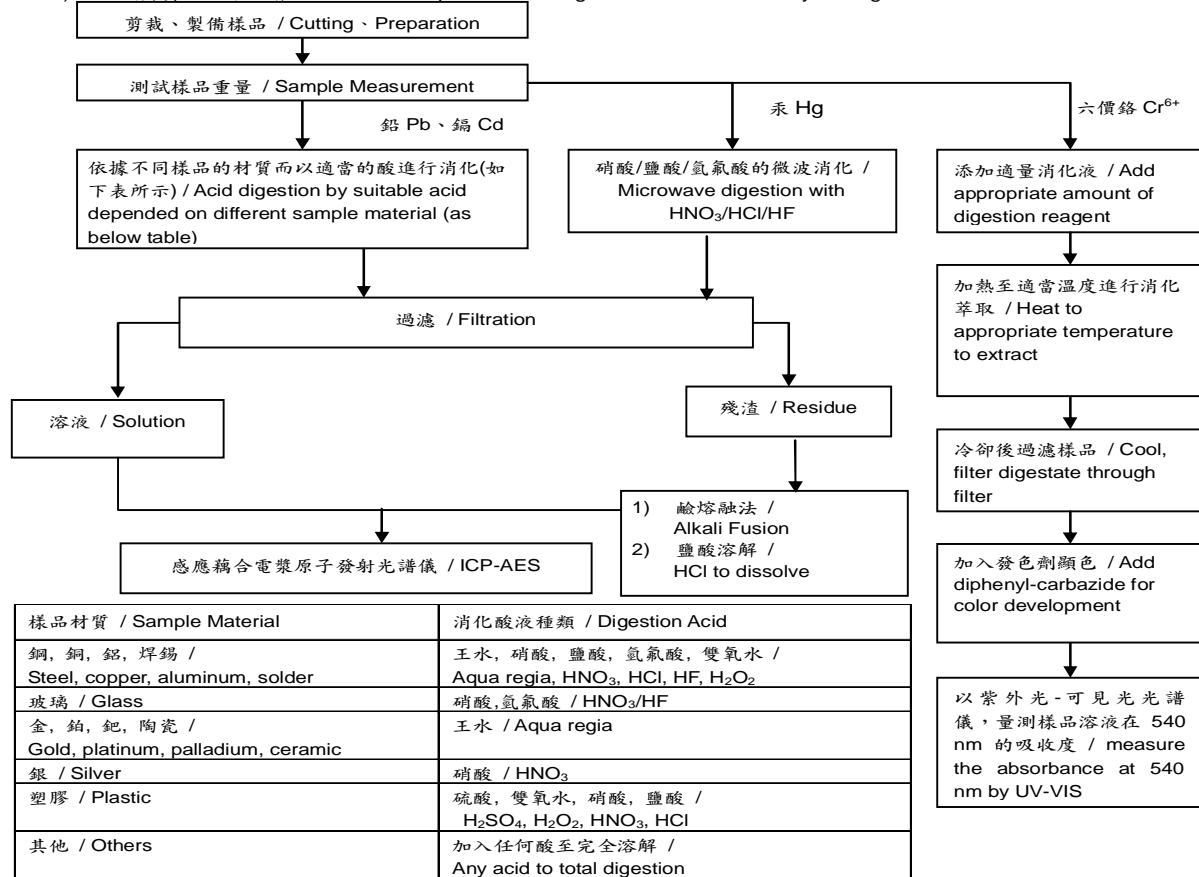
測試報告 Test Report

號碼(No.) : KA/2013/51181 日期(Date) : 2013/05/27

頁數(Page): 4 of 6

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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℃ 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(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.

測試報告 Test Report

號碼(No.) : KA/2013/51181 日期(Date) : 2013/05/27

頁數(Page): 5 of 6

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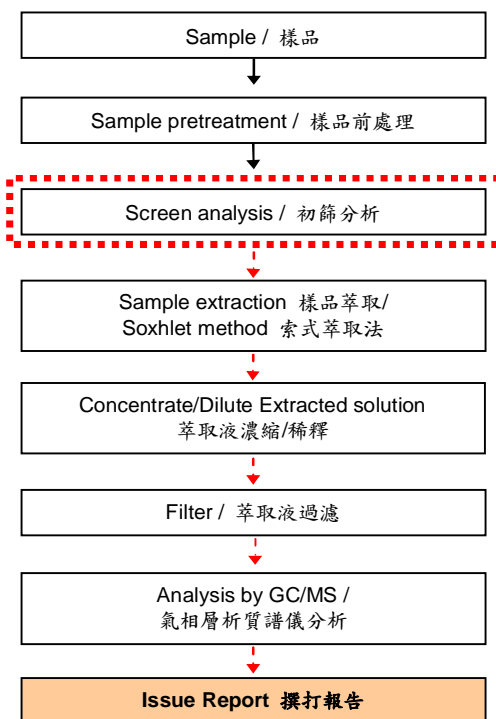
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：曹嘉琪 / Name of the person who made measurement: Anson Tsao
- 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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頁數(Page): 6 of 6

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* 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/2013/51181



** 報告結尾 (End of Report) **