

Test Report

號碼(No.) : CE/2016/10558

日期(Date) : 2016/01/12

頁數(Page): 1 of 5

(The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)
 樣品名稱(Sample Description) : RIGID PVC FILM (硬質PVC膠布)
 收件日期(Sample Receiving Date) : 2016/01/05
 測試期間(Testing Period) : 2016/01/05 TO 2016/01/12

測試需求(Test Requested) :

- (1) 依據客戶指定，參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

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

結論(Conclusion) : (1) 根據客戶所提供的樣品，其DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求。(Based on the performed tests on submitted samples, the test results of DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)



Troy Chang / Manager - Tech
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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Test Results

測試部位(PART NAME)No. 1 : 透明塑膠片 (TRANSPARENT PLASTIC SHEET)

| 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) | 限值 (Limit) |
|---|--------------|---|----------------------|----------------|---------------|
| | | | | No. 1 | |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | 0.1 |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | 0.1 |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | 0.1 |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n. d. | - |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n. d. | - |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | 0.1 |
| 鄰苯二甲酸二甲酯 / DMP (Di-methyl phthalate) (CAS No. : 131-11-3) | % | 參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |

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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) | 限值 (Limit) |
|---|--------------|---|----------------------|----------------|---------------|
| | | | | No. 1 | |
| 鄰苯二甲酸二丙酯 / DPrP (Di-propyl phthalate) (CAS No. : 131-16-8) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二環己酯 / DCHP (Di-cyclohexyl phthalate) (CAS No. : 84-61-7) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No. : 84-66-2) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二異辛酯 / DIOP (Di-isooctyl phthalate) (CAS No. : 27554-26-3) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n. d. | - |
| 鄰苯二甲酸二正壬酯 / DNNP (Di-n-nonyl phthalate) (DNP) (CAS No. : 84-76-4) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 己二酸二(2-乙基己基)酯 / DEHA (Di-2-ethylhexyl adipate) (CAS No. : 103-23-1) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二戊酯 / Di-n-pentyl phthalate (CAS No. : 131-18-0) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |
| 鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No. : 84-75-3) | % | 參考EN 14372, 以氣相層析/質譜儀檢測。 / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n. d. | - |

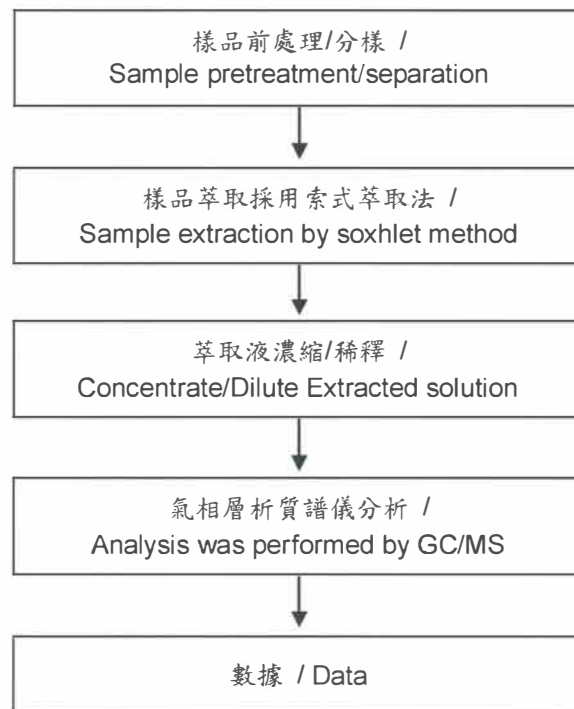
備註(Note) :

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)
4. "-" = Not Regulated (無規格值)

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

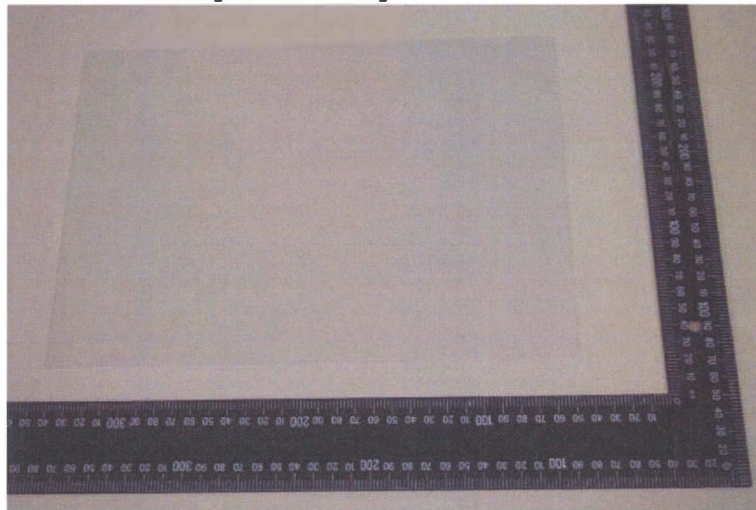
- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啟興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: EN 14372】



* 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.)

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** 報告結尾 (End of Report) **