

試驗報告

號碼(No.) : KA/2018/80430 日期(Date) : 2018/08/14

頁數(Page): 1 of 8

Test Report

鈴寶企業有限公司

LING PAO ENTERPRISE CO., LTD.

712臺南市新化區崙頂里417號

NO. 417, LUNDING VILLAGE, SINHUA TOWNSHIP, TAINAN COUNTY 712, 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) : 防水帽(TOGGLE SWITCH WATER PROOF CAP)
樣品型號(Style/Item No.) : 70 TYPE SERIES
收件日期(Sample Receiving Date) : 2018/08/07
測試期間(Testing Period) : 2018/08/07 TO 2018/08/14
送樣廠商(Sample Submitted By) : 鈴寶企業有限公司 (LING PAO ENTERPRISE CO., LTD.)

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

Ray Chang

報告簽署人/Ray Chang, Ph.D./Manager Tech

Signed for and on behalf of

SGS Taiwan Limited



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測試結果(Test Results)

- 測試部位(PART NAME) NO. 1 : 整體混測塑膠圈/墊片 (MIXED ALL PARTS 塑膠圈/墊片)
- 測試部位(PART NAME) NO. 2 : 整體混測矽膠套(紅色/黃色/綠色/藍色/黑色) (MIXED ALL PARTS (RED/YELLOW/GREEN/BLUE/BLACK) 矽膠套)
- 測試部位(PART NAME) NO. 3 : 整體混測圓形螺母/六角形螺母 (MIXED ALL PARTS 圓形螺母/六角形螺母)

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	NO. 2	NO. 3
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	16.9
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	26300
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321-7-2:2017, 以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n. d.	n. d.	---
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	參考IEC 62321-7-1:2015, 以UV-VIS檢測. / With reference to IEC 62321-7-1:2015 and performed by UV-VIS.	0.10	---	---	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)		
				NO. 1	NO. 2	NO. 3
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6:2015，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6:2015 and performed by GC/MS.	-	n. d.	n. d.	---
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	---
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	---
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	---
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	---
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	---
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	---
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	---
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	---
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	n. d.	---
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	n. d.	---
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321-6:2015，以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6:2015 and performed by GC/MS.	-	n. d.	n. d.	---
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.	n. d.	---
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg	參考IEC 62321-8:2017，以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	n. d.	---
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.	n. d.	---
鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg		50	n. d.	n. d.	---
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	n. d.	n. d.	---

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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)
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測項目)
6. (#2) =
 - a. 當六價鉻結果大於 $0.13 \mu\text{g}/\text{cm}^2$ ，表示樣品表層含有六價鉻。 / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n. d. (濃度小於 $0.10 \mu\text{g}/\text{cm}^2$)，表示表層不含六價鉻。 / The sample is negative for Cr(VI) if Cr(VI) is n. d. (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating
 - c. 當六價鉻結果介於 0.10 及 $0.13 \mu\text{g}/\text{cm}^2$ 時，無法確定塗層是否含有六價鉻。 / The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.
7. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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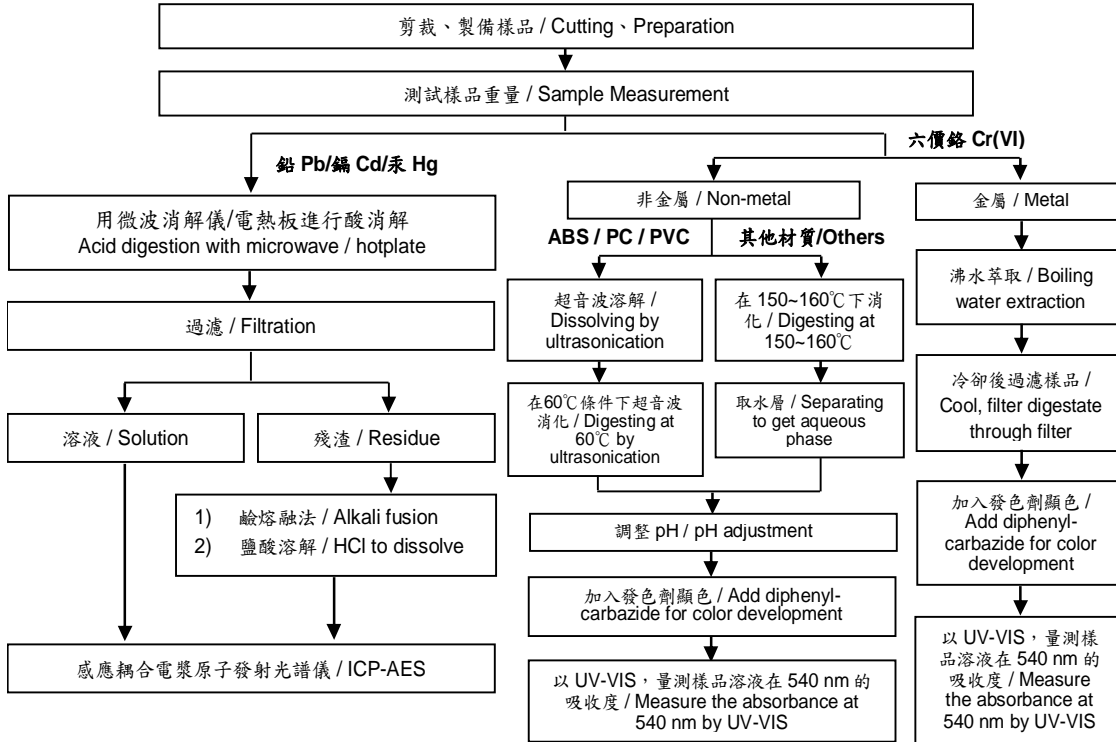
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

- 測試人員：劉俊宏 / Technician : Jony Liu
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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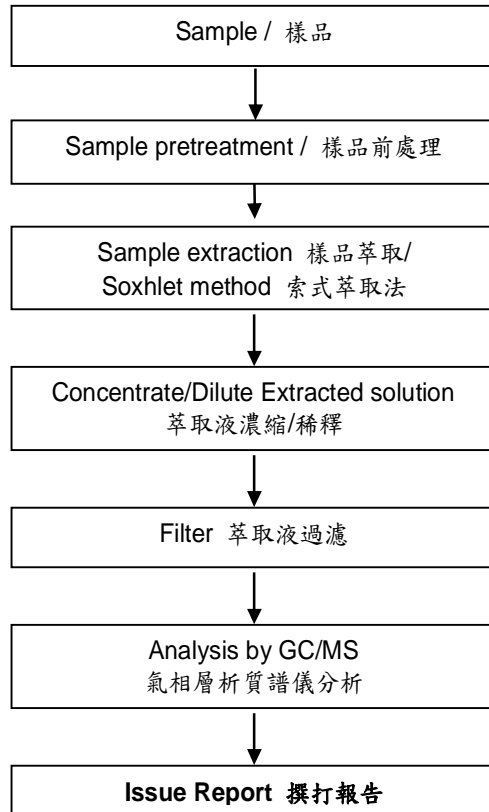
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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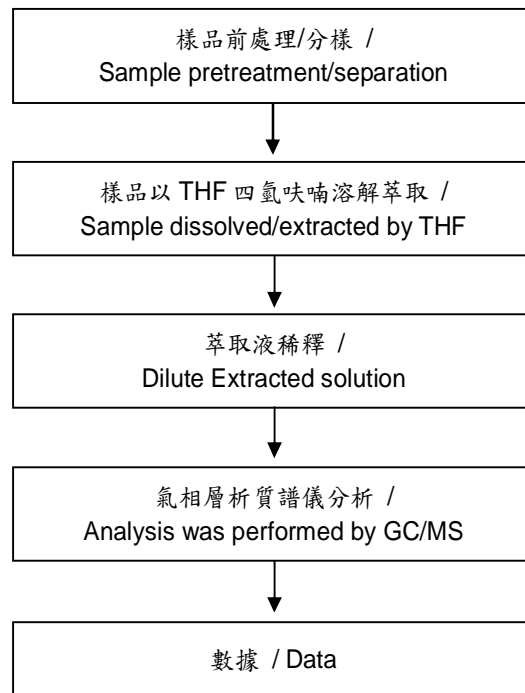
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang

【測試方法/Test method: IEC 62321-8】



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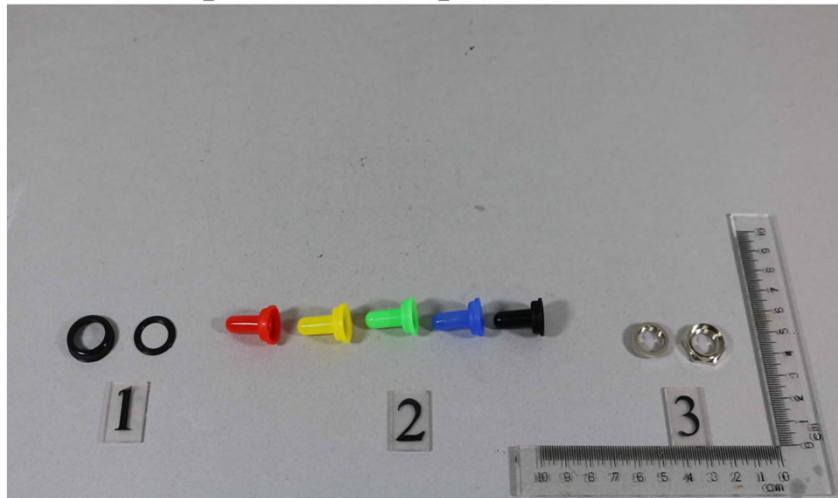
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2018/80430



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** 報告結尾(End of Report) **

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