

#### 試驗報告 **Test Report**

號碼(No.): KA/2018/80431 日期(Date): 2018/08/14 頁數(Page): 1 of 12

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) 樣品型號(Style/Item No.)	: 搖頭開闢(TOGGLE SWITCH) : TOGGLE SWITCH L7 TYPE SERIES, 70 TYPE SERIES, PU70 TYPE SERIES, PA 70 TYPE SERIES
收件日期(Sample Receiving Date) 測試期間(Testing Period) 送樣廠商(Sample Submitted By)	: 2018/08/07 : 2018/08/07 TO 2018/08/14 : 鈴寶企業有限公司 (LING PAO ENTERPRISE CO.,LTD.)

- 测试结果(Test Results)
- : 請見下一頁 (Please refer to next pages).



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#### <u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1	:	整體混測銅頭/手把(MIXED ALL PARTS 銅頭/手把)
測試部位(PART NAME) NO.2	:	整體混測鐵件/螺母/螺絲/彈簧(MIXED ALL PARTS 鐵件/螺母/螺絲/彈簧)
測試部位(PART NAME) NO.3	:	整體混測銀接點/紅銅釘/跳板(MIXED ALL PARTS 銀接點/紅銅釘/跳板)
測試部位(PART NAME) NO.4	:	整體混測面板(MIXED ALL PARTS 面板)
測試部位(PART NAME) NO.5	:	整體混測電木殼/滑動粒/滑動粒座/電木板(MIXED ALL PARTS 電木殼/滑動粒/滑
		動粒座/電木板)
測試部位(PART NAME) NO.6	:	整體混測貼紙(MIXED ALL PARTS 貼紙)
測試部位(PART NAME) NO.7	:	整體混測潤滑油(MIXED ALL PARTS 潤滑油)

測試項目	單位	测試方法	方法偵 測	結果 (Result)		
(Test Items)	(Unit)	(Method)	極限值 (MDL)	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	10.6	n. d.	n. d.
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	28200	n. d.	n. d.
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)(#2)	µg/cm²	参考IEC 62321-7-1:2015,以UV- VIS檢測. / With reference to IEC 62321-7-1:2015 and performed by by UV-VIS.	0.10	n. d.	n. d.	n. d.

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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.)

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. 4	NO. 5	NO. 6
鎘 / Cadmium (Cd)	mg/kg	参考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.	n. d.
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	7.67	n. d.	n. d.
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)(#2)	µg/cm²	参考IEC 62321-7-1:2015,以UV- VIS檢測. / With reference to IEC 62321-7-1:2015 and performed by by UV-VIS.	0.10	n. d.		
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考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.
多溴聯苯總和 / Sum of PBBs	mg/kg		_		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	·參考IEC 62321-6:2015,以氣相層	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	4	5		n. d.	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	4	5		n. d.	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg	1	5		n. d.	n. d.

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NO. 417, LUNDING VILLAGE, SINHUA TOWNSHIP, TAINAN COUNTY 712, TAIWAN (R.O.C.)

测試項目 (Test Items)	單位	测試方法	方法偵 測	結果(Result)		
	(Unit)	(Method)	極限值 (MDL)	NO. 4	NO. 5	NO. 6
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-		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	參考IEC 62321-6:2015,以氣相層	5		n. d.	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	析/質譜儀檢測. / With reference	5		n. d.	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	前/頁音俄被滅, / With Telefence to IEC 62321-6:2015 and performed by GC/MS.	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	performed by dermo.	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-	mg/kg		50		n. d.	n. d.
isobutyl phthalate) (CAS No.: 84-69- 5)						
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	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.
鄰苯二甲酸丁苯甲酯 / 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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NO. 417, LUNDING VILLAGE, SINHUA TOWNSHIP, TAINAN COUNTY 712, TAIWAN (R.O.C.)

测試項目 (Test Items)	單位	测試方法	方法偵 測	結果 (Result)			
	(Unit)	(Method)	極限值 (MDL)		NO. 7		
鎘 / Cadmium (Cd)	mg/kg	参考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.			
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.			
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.			
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考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.			
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.			
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	參考IEC 62321-6:2015,以氣相層	5	n. d.			
四溴聯苯 / Tetrabromobiphenyl	mg/kg	析/質譜儀檢測. / With reference	5	n. d.			
五溴聯苯 / Pentabromobiphenyl	mg/kg	新/貨譜俄被測. / With reference to IEC 62321-6:2015 and performed by GC/MS.	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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测試項目 (Test Items)	單位	测試方法	方法偵 測	結	lt)	
	(Unit)	(Method)	極限值 (MDL)	NO. 7		
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.		
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	1	5	n. d.		
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.		
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	參考IEC 62321-6:2015,以氣相層	5	n. d.		
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	参考160 02321-0:2015,以氟相層 析/質譜儀檢測. / With reference	5	n. d.		
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	初7頁電機微測, 7 mith feference to IEC 62321-6:2015 and	5	n. d.		
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	performed by GC/MS.	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.		
鄰苯二甲酸二異丁酯 / DIBP (Di-	mg/kg		50	n. d.		
isobutyl phthalate) (CAS No.: 84-69-						
5)						
鄰苯二甲酸二丁酯 / DBP (Dibuty)	mg/kg	參考IEC 62321-8:2017,以氣相層 析儀/質譜儀檢測. / With	50	n. d.		
phthalate) (CAS No.: 84-74-2)						
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	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)	mg/kg		50	n. d.		
10.111-01-1)						

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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 µg/cm<sup>2</sup>,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 µg/cm<sup>2</sup>. 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 μg/cm<sup>2</sup>),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  $\mu g/cm^2$ ). The coating is considered a non-Cr(VI) based coating

c. 當六價鉻結果介於 0.10 及 0.13 μg/cm<sup>2</sup> 時,無法確定塗層是否含有六價鉻. / The result between 0.10 μg/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> 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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## **Test Report**

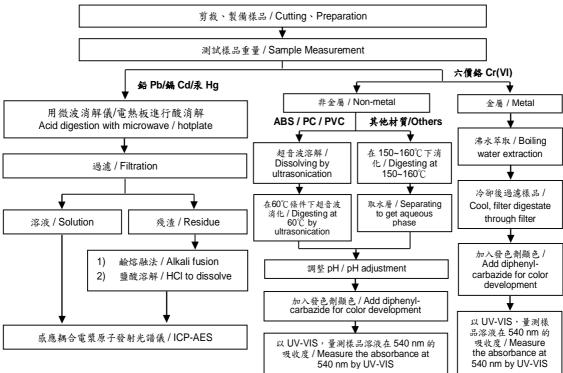
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#### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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





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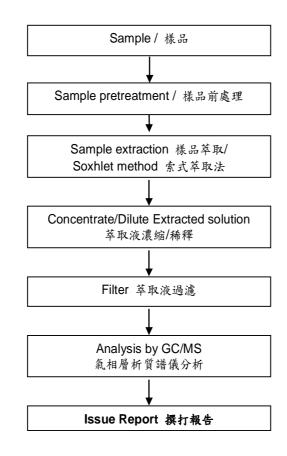
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#### 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

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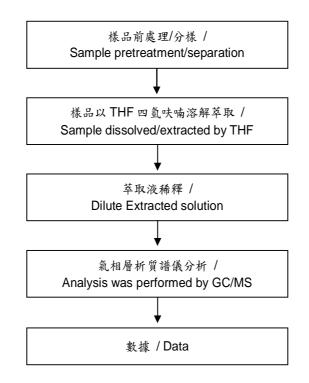
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

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

#### 【测試方法/Test method: IEC 62321-8】



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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.)

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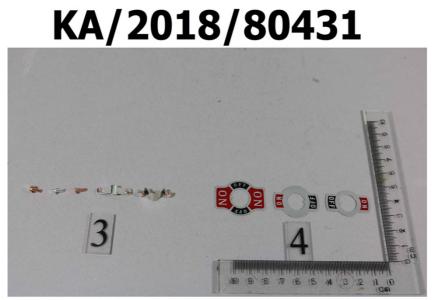


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