

測試報告	號碼(No.) : CE/2017/33835A	日期(Date) : 2017/03/31	頁數(Page): 1 of 6
Test Report			$\chi \propto (1 \text{ age})$. 1 01 0
嶸樺企業有限公司 RUNG HUA INDUSTRIAL CO., 桃園市新屋區下田里1鄰23-			
23-7, 1 NIGHBOR, SIATIAN TAIWAN (R. O. C.)	ISINZIH, SIATIAN VILLAGE, SINW	U DISTRICT, TAOYUAN CITY 327,	

以下測試様品係由申請廠商所提 behalf of the applicant as) 様品名稱(Sample Description) 收件日期(Sample Receiving Date) 測試期間(Testing Period)	供及確認 (The following sample(s) was/were submitted and identified by/on : : HOOP RING / GRIP RING (擴張環) : 2017/03/13 : 2017/03/13 TO 2017/03/20
測試需求(Test Requested) :	依據客戶要求,參考 RoHS 指令 2011/65/EU Annex II 測試鎘、鉛、汞、六價鉻、多溴 聯苯、多溴聯苯醚. (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).

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 : 藍色塑膠 (BLUE PLASTIC) 測試部位(PART NAME)No.2 : 灰色塑膠 (GRAY PLASTIC)

测試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	
(Test Ttems)		(method)		No. 1	No. 2
鎘 / Cadmium (Cd)	mg/kg	参考IEC 62321-5 (2013),以感應耦合電 浆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.
鉛 / Lead (Pb)	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.
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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321 (2008), 以UV-VIS檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	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	参考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.	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			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.

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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)	
(Test Ttems)				No. 1	No. 2
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg 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		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/		1	5	n. d.	n. d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.	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)

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Note** (For IEC 62321)

其他 / Others

(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℃

加入適當的試劑至完全溶解 / Added appropriate

(2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

reagent to total digestion

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UV-VIS



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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

■ 測試人員:涂雅苓 / Technician: Yaling Tu

■ 測試負責人:張啟興 / Supervisor: Troy 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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> * 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.)



CE/2017/33835 NO.2



** 報告結尾 (End of Report) **

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