

## 測試報告 Test Report

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BOURNS INC.

1200 COLUMBIA AVE. RIVERSIDE, CA 92507-2114, U. S. A.



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) : TRANSIENT BLOCKING UNIT (TBU) DEVICE  
樣品型號(Style/Item No.) : TBU-CAXXX-XXX-WH  
收件日期(Sample Receiving Date) : 2010/06/01  
測試期間(Testing Period) : 2010/06/01 TO 2010/06/07

=====  
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、多溴聯苯及多溴聯苯醚的測試結果符合RoHS(2002/95/EC)及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs **comply with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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## 測試結果(Test Results)

測試部位(PART NAME) NO.1 TRANSIENT BLOCKING UNIT (TBU) DEVICE

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) by alkaline extraction	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
<b>鹵素 / Halogen</b>					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析 儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)			50	n.d.	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)			50	n.d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)			50	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)	法規 限值 (Limit)		
				NO.1			
<b>多溴聯苯總和 / Sum of PBBs</b>	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000		
一溴聯苯 / Monobromobiphenyl			5	n.d.	-		
二溴聯苯 / Dibromobiphenyl			5	n.d.	-		
三溴聯苯 / Tribromobiphenyl			5	n.d.	-		
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-		
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-		
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-		
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-		
八溴聯苯 / Octabromobiphenyl			5	n.d.	-		
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-		
十溴聯苯 / Decabromobiphenyl			5	n.d.	-		
<b>多溴聯苯醚總和 / Sum of PBDEs</b>					-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether					5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether					5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether					5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether					5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether					5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether					5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether					5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether					5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	-		
十溴聯苯醚 / Decabromodiphenyl ether			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)
4. "-" = Not Regulated (無規格值)

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## 測試報告 Test Report

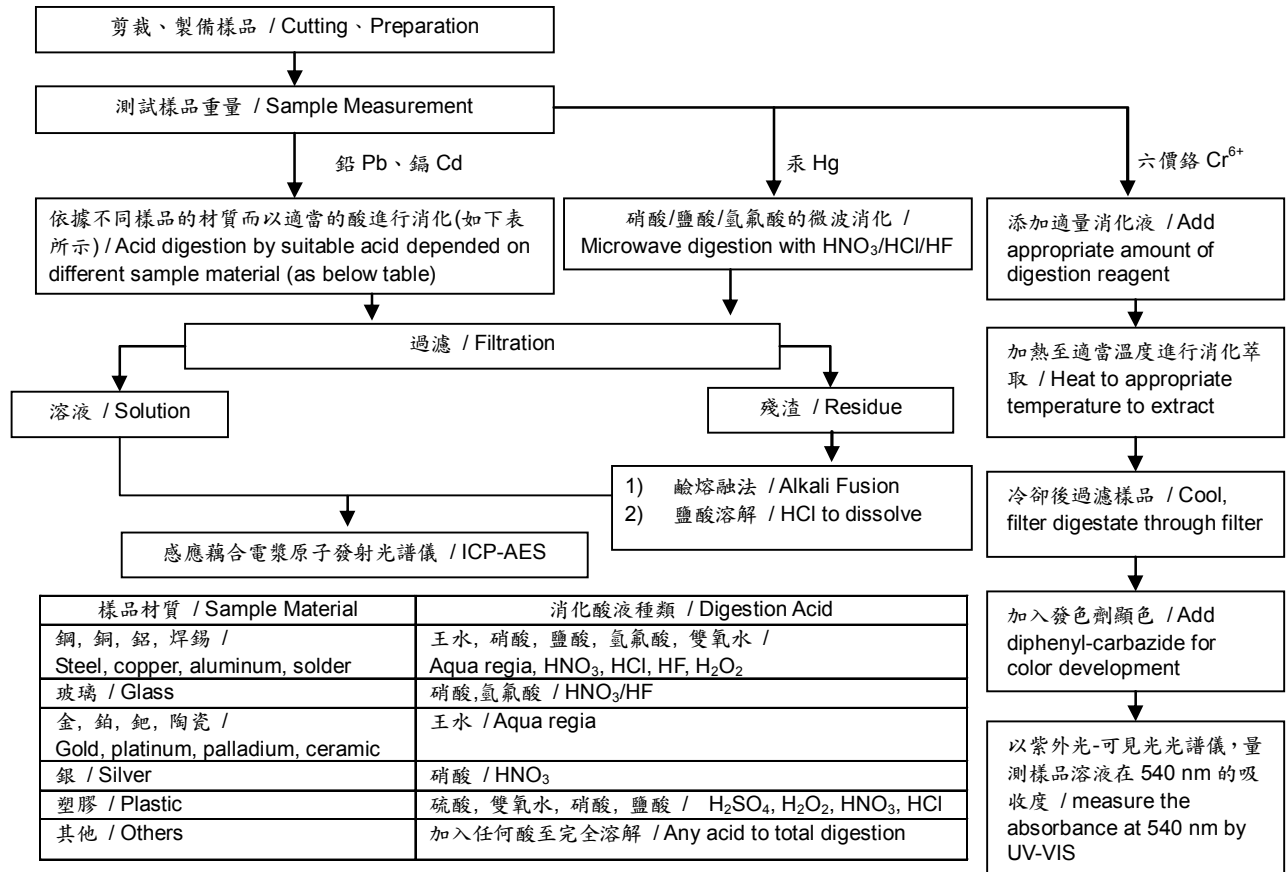
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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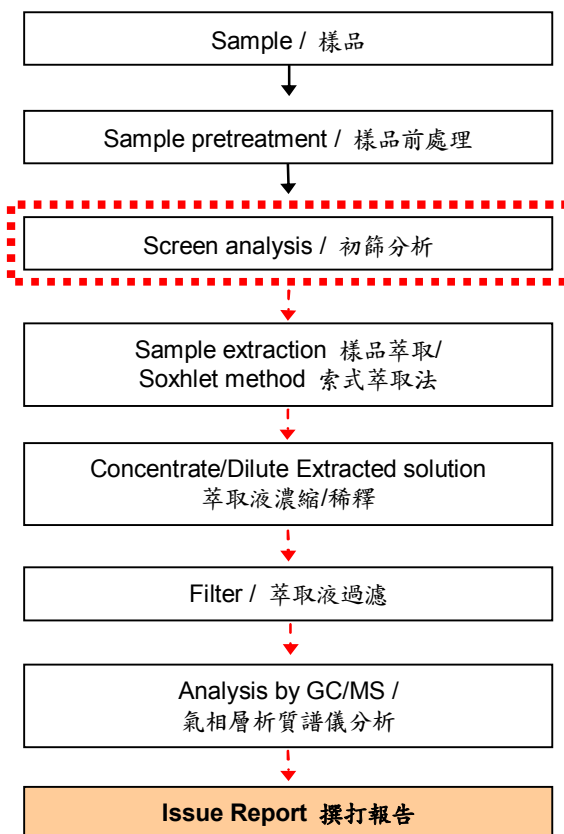
### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: 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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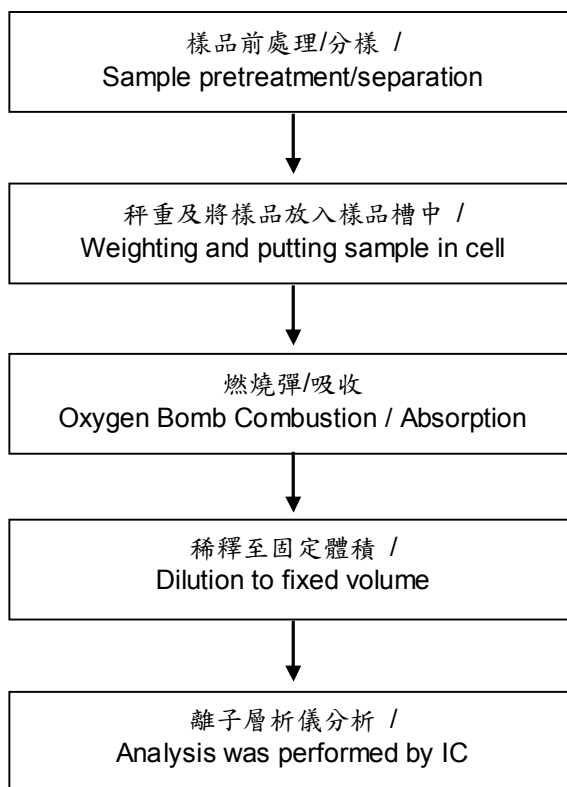
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### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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\*\* 報告結尾(End of Report) \*\*

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