

測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 1 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

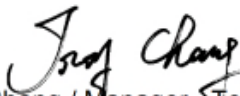
樣品名稱(Sample Description) : PURIFIED CUSO4 CONC (APT) / 20L PDR T
樣品型號(Style/Item No.) : 11133892
買主/訂單號碼(Buyer/Order No.) : 4370022331
收件日期(Sample Receiving Date) : 2019/08/16
測試期間(Testing Period) : 2019/08/16 to 2019/08/21

測試需求(Test Requested) :

- (1) 依據客戶指定, 參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, 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 Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
- (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) : 請參閱下一頁 (Please refer to following pages).

結論(Conclusion) : (1) 根據客戶所提供的樣品, 其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP 的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求. (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)


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



測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 2 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

測試結果(Test Results)

測試部位(PART NAME)No. 1 : 藍色液體 (BLUE LIQUID)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
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.	100
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.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013+ AMD1:2017, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-AES.	2	n. d.	1000
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.	1000
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052 (1996), 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.	-

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 3 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052 (1996), 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.	-
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.	1000
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		5	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		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.	-	
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.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		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.	-	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 4 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg	參考IEC 62321-8 (2017), 以氣相層析 /質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg		50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No. : 84-69- 5)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No. : 26761- 40-0; 68515-49-1)	mg/kg		50	n. d.	-
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No. : 28553- 12-0; 68515-48-0)	mg/kg		50	n. d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No. : 117-84-0)	mg/kg		50	n. d.	-
鄰苯二甲酸二正己酯 / DNHP (Di-n- hexyl phthalate) (CAS No. : 84-75-3)	mg/kg		50	n. d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考CEN/TS 15968 (2010), 以液相層 析/質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	n. d.	-
全氟辛酸 / PFOA (CAS No. : 335-67-1)	mg/kg	參考CEN/TS 15968 (2010), 以液相層 析/質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	n. d.	-

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 5 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg	參考BS EN 14582 (2016), 以離子層析儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	n. d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	mg/kg		50	n. d.	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	n. d.	-

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n. d. = Not Detected (未檢出)
4. "-" = Not Regulated (無規格值)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1 $\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 $\mu\text{g}/\text{m}^2$.)

測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 6 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

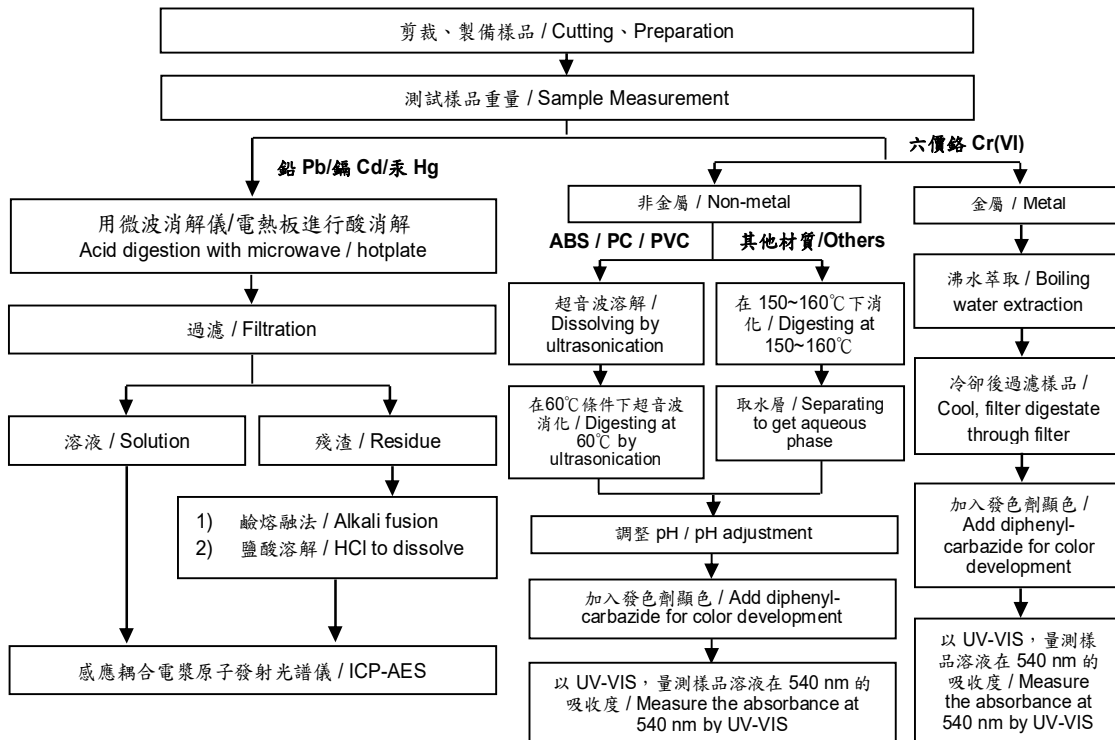
桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

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：陳思臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 7 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

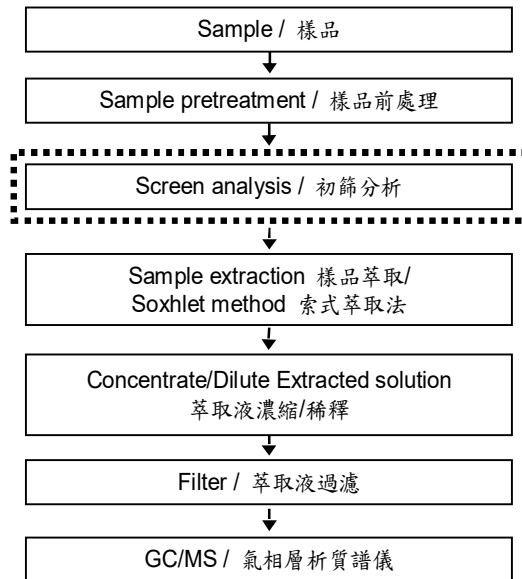
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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 - - ->



測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 8 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

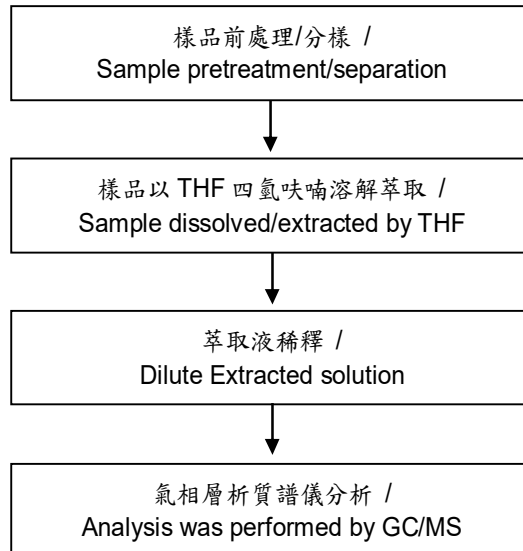
中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor : Troy Chang

【測試方法/Test method: IEC 62321-8】



測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 9 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

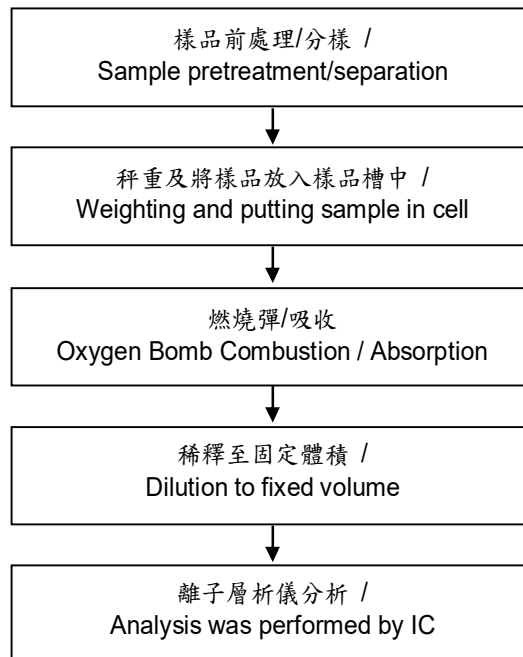
中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 10 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

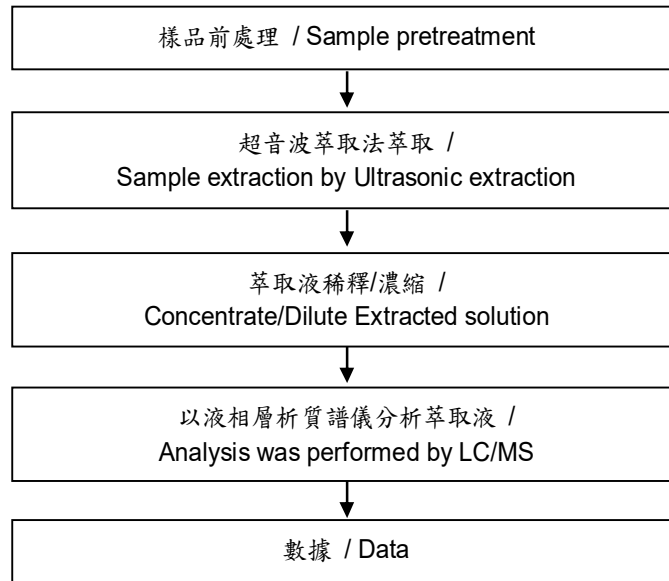
中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



測試報告

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 11 of 12

Test Report

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

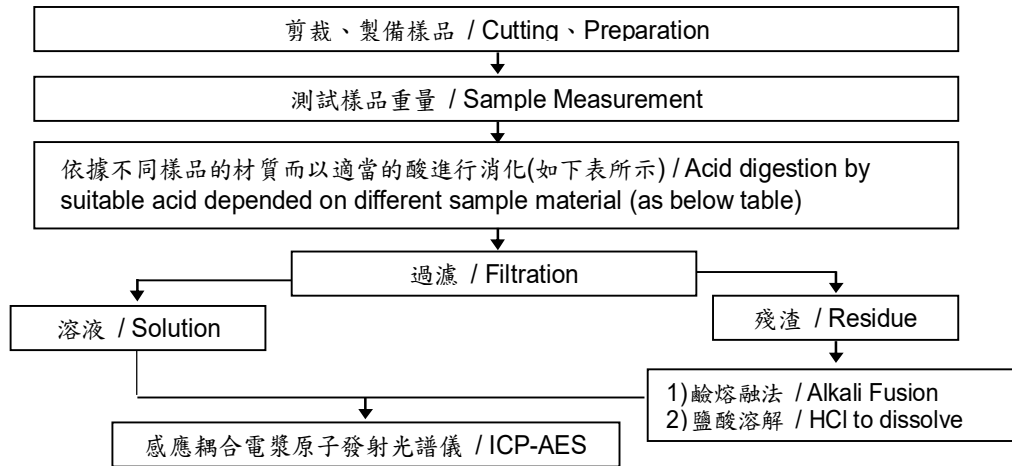
中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

測試報告

Test Report

號碼(No.) : CE/2019/82627

日期(Date) : 2019/08/21

頁數(Page): 12 of 12

陶氏化學電子材料/羅門哈斯電子材料/科波西電子材料

DOW ELECTRONIC MATERIALS / ROHM AND HAAS ELECTRONIC MATERIALS / CUPOSIT ELECTRONIC MATERIALS

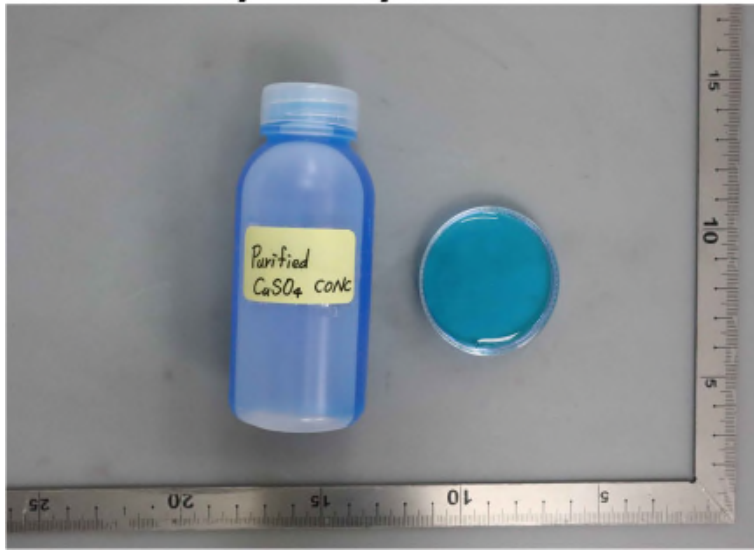
中國江蘇省張家港市揚子江國際化學工業園南京路3號 / 3 NANGJING ROAD, JIANGSU YANGTZE RIVER INTERNATIONAL CHEMICAL INDUSTRIAL PARK, ZHANGJIAGANG CITY, JIANGSU PROVINCE, CHINA

中國廣東省東莞市東城區牛山外經工業園 / NIUSHAN FOREIGN ECONOMIC INDUSTRY PARK, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

桃園縣大園鄉大園工業區中山北路280巷6號 / NO. 6, LANE280, CHUNG SHAN NORTH ROAD, TA YUAN INDUSTRIAL ZONE, TA YUAN HSIANG, TAOYUAN HSIEN, TAIWAN, R. O. C.

* 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/2019/82627



** 報告結尾 (End of Report) **