

承

認

書

**APPROVAL SHEET**

發行日期： 2017 / 12 / 22


料 號： 51000-024419-RS

品 名： QuAI\_A4 flyer\_P2\_201801(EN)

規 格： 21X29.7 cm

廠 商： 東展特殊印刷有限公司

廠商料號： 201712005A

AUTHORIZED		SIGNATURE	
			
文館中心	研發主管	研發工程師	廠商確認

威聯通科技股份有限公司

**QNAP Systems, Inc.**

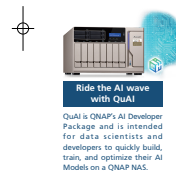
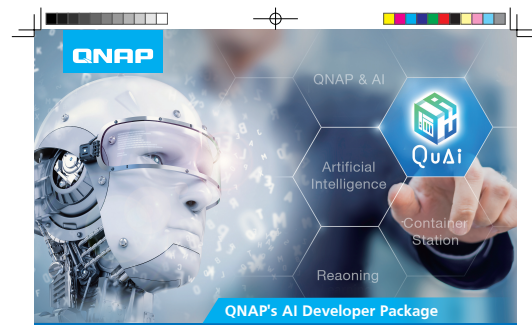
新北市 221 汐止區中興路22號3樓

**3F, No.22, Zhongxing Rd, Xizhi Dist, New Taipei City, 221, Taiwan, R.O.C.****Tel : +886-2-2641-2000****Fax : +886-2-2641-0555**

# 承認書：規格表

料 號	51000-024419-RS	材 質	150P 銅版紙
版 本	A	顏 色	C、M、Y、K 4色印刷
完成尺寸	210mmX297mm ±2mm	上 光	無
展開尺寸	210mmX297mm ±2mm	其 它	無

## 原始圖檔：



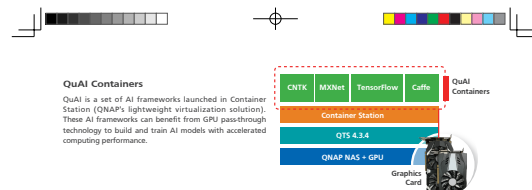
### The AI era is here

AI-based applications and services such as Apple Siri, Amazon Echo, Microsoft Cortana, Chatbots, Pepper robot, AWS DeepLens, and IBM Watson continue to gain traction in the market, and this is just the tip of the iceberg. Within the coming years, the continued evolution of AI is poised to revolutionize every aspect of our lives and economic sectors, including software, finance, healthcare, transportation and more.

Within this revolution, the demand for AI computing environments and frameworks is significantly high. QNAP now provides a groundbreaking AI computing platform based on QNAP NAS called QuAi (pronounced as Q A I) - QNAP's AI Developer Package.

### Build, train, optimize and deploy AI models

QuAi enables data scientists and developers to quickly build, train, optimize, and deploy machinelearning models with high-performance machine learning algorithms, with a wide range of supported AI frameworks on top of QNAP's robust NAS.



### QuAi Containers

QuAi is a set of AI frameworks launched in Container Station (QNAP's lightweight virtualization solution). These AI frameworks can benefit from GPU passthrough technology to build and train AI models with accelerated computing performance.

### Supports popular deep learning frameworks

QuAi supports leading deep learning frameworks such as MXNet, TensorFlow, Caffe, Caffe2, Microsoft CNTK, CUDA. All these frameworks are available as container images in QNAP's Container Station.

### Quickly get started with QuAi

QuAi reduces the time needed to set up an AI environment from hours to minutes.



### Relatively Less TCO

- Reduced TCO compared with using workstations.
- Unlike cloud platforms, comes with a one-time cost.
- Overall higher cost efficiency.

### Fast and Easy Setup

- QuAi set up entire AI environment by using installation wizard.
- Reduce set up time from hours on workstations to a few minutes on QNAP NAS.

### Large Storage Potential

- QNAP NAS is designed to handle TBs to PBs of storage capacity.
- Leverage QNAP's powerful Storage & Snapshots Manager to manage huge volumes of data.

### High IOPS with SSD caching

- Accelerate the performance of IOPS-intensive AI applications with SSD caching.

### Well rounded security

- Data models are securely stored within your private network.
- Best suited for research projects where confidentiality is paramount.

### App-driven ecosystem

- Provides diverse types of training data from QNAP NAS apps (including multimedia, IoT telemetry data, and more) to train AI models.

### System Requirements

Supported Models : TS-477 Series

QTS: QTS 4.3.4 (and later)

### Supported Graphics Cards

Brand Supported Graphics Cards

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

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ASUS PR-GTX1080-8G

ASUS PR-GTX1080-8G

**QNAP SYSTEMS, INC.**  
TEL : +886-2-2642-2000 FAX : +886-2-2641-0555 Email: [qnap@qnap.com](mailto:qnap@qnap.com)  
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## 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 1 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, 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) :

送樣廠商(Sample Submitted By) : 中華紙漿股份有限公司 (CHUNG HWA PULP CORPORATION)

樣品名稱(Sample Description) : COATED PAPER (銅版紙類)

應用於(Used For) : 單面銅版紙, 特級雙面銅版紙, 高級雪面銅版紙, 火鶴超級銅版紙, 火鶴超級雪面銅版紙, 琉麗特級銅版紙, 琉麗特級雪面銅版紙, 布紋銅版紙, 花紋銅版紙, 雜誌紙, 高白雜誌紙, 高白雪面雜誌紙, 輕雪面銅版紙, 高厚特銅, 高厚雪銅, 嵩厚雪銅, 嵩厚特銅, 高階雪面彩噴紙, 高階半亮面彩噴紙, 高階亮面彩噴紙 (ONE-SIDE COATED ART PAPER, TWO-SIDE COATED ART PAPER, ART PAPER(GLOSS), ART PAPER(MATT), FLAMINGO SUPER ART PAPER(GLOSS), FLAMINGO SUPER ART PAPER(MATT), TITTOT ART PAPER(GLOSS), TITTOT ART PAPER(MATT), LINEN EMBOSSED COATED PAPER, PEAR EMBOSSED COATED PAPER, LIGHT WEIGHT COATED PAPER, LIGHT WEIGHT COATED PAPER(GLOSS), LIGHT WEIGHT COATED PAPER(MATT), HIGH BULKY TWO-SIDE COATED ART PAPER(MATT), HIGH BULKY TWO-SIDE COATED ART PAPER(GLOSS))

收件日期(Sample Receiving Date) : 2017/07/21

測試期間(Testing Period) : 2017/07/21 TO 2017/07/28

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

Troy Chang, Manager, Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



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## 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 2 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.



## 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 白色紙張 (WHITE PAPER)

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
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.
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	2.55
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	參考 IEC 62321-7-2 (2017), 以 UV-VIS 檢測; 參考 IEC 62321-5 (2013), 以 ICP-AES 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	參考 IEC 62321 (2008), 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.

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## 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 3 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, 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. 1
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.
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		—	n. d.
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.

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## 測試報告

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 4 of 9

## Test Report

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台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, 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. 1
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	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.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		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.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg		50	n. d.
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.

## 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. (◆) :

若鉻含量小於六價鉻之方法偵測極限值, 則六價鉻為n. d. , 不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值, 需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.

## 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 5 of 9

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台北市中正區重慶南路二段51號12樓

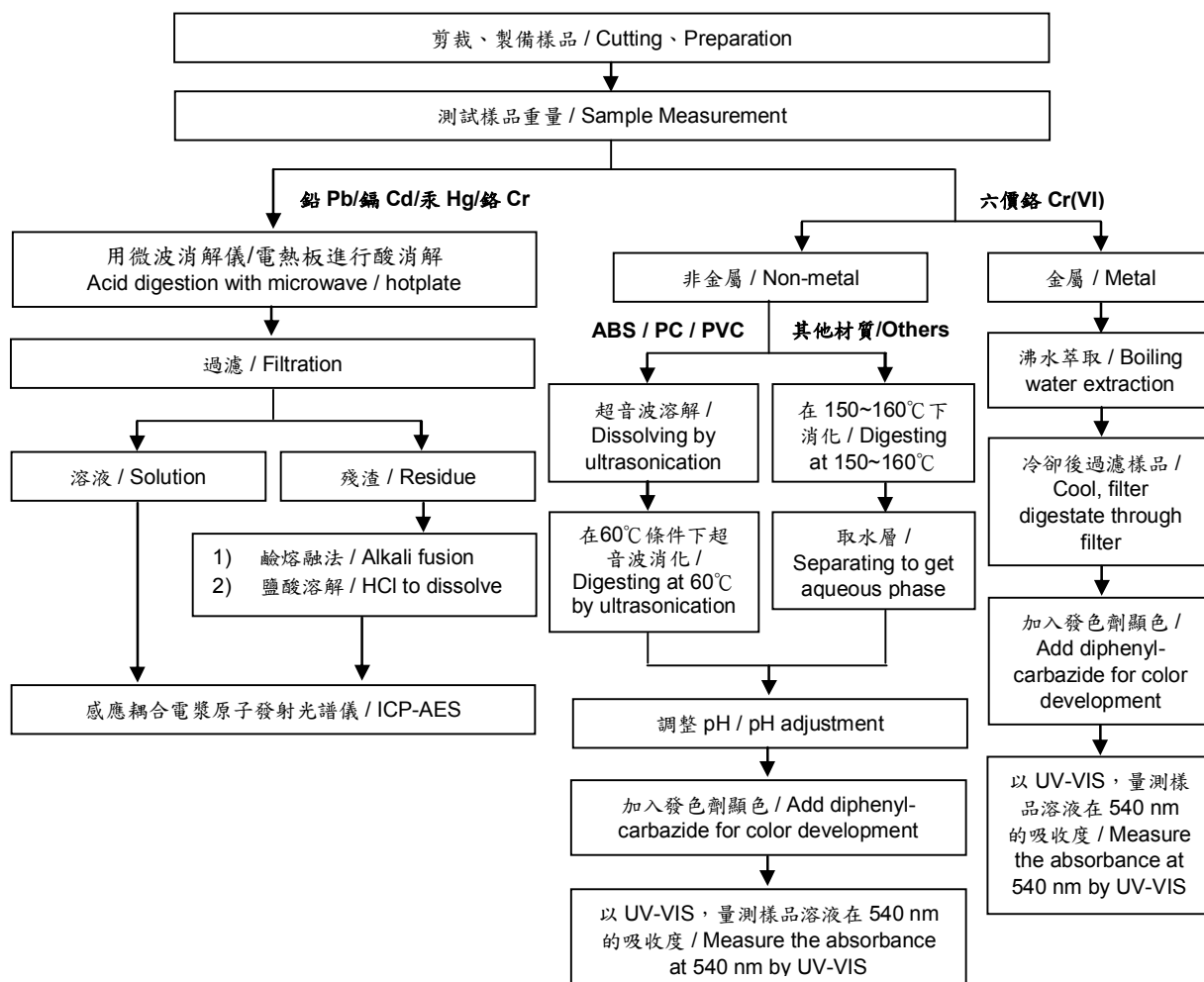
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**重金屬流程圖 / Analytical flow chart of Heavy Metal**

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



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# 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 6 of 9

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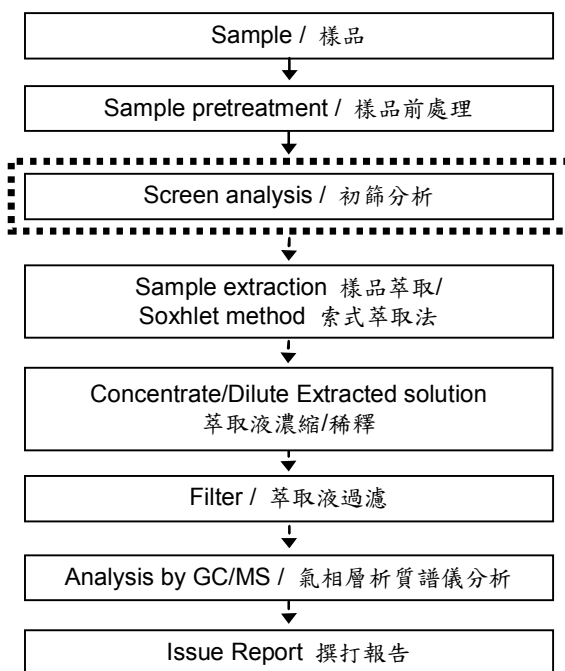
### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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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## Test Report

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日期(Date) : 2017/07/28

頁數(Page): 7 of 9

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CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

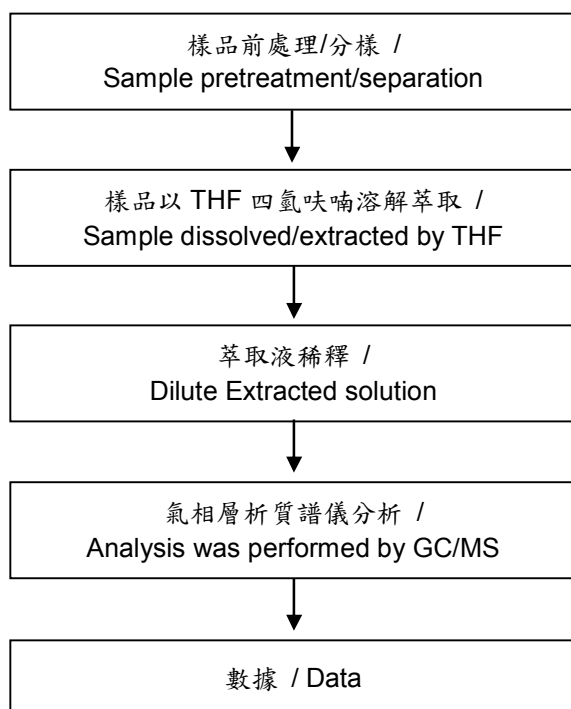
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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# 測試報告

## Test Report

號碼(No.) : CE/2017/74456

日期(Date) : 2017/07/28

頁數(Page): 8 of 9

中華紙漿股份有限公司  
CHUNG HWA PULP CORPORATION

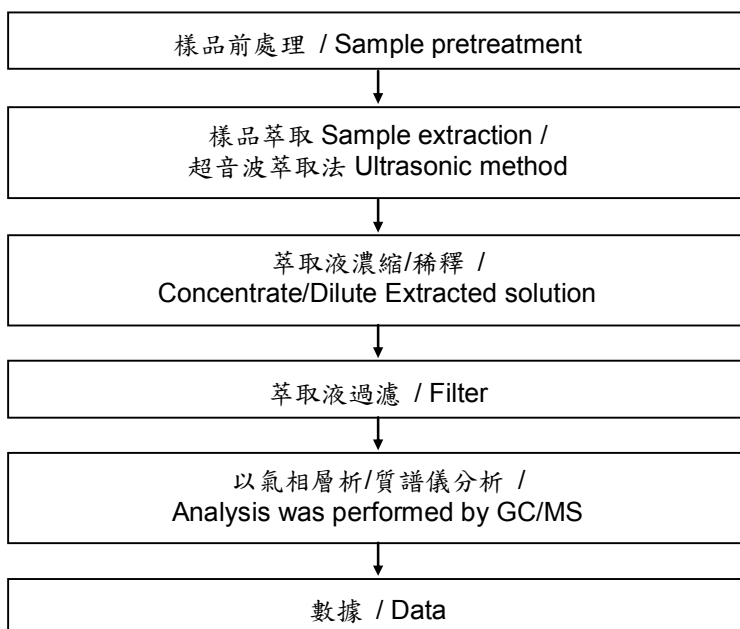
台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., ZHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.



### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



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頁數(Page): 9 of 9

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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/2017/74456



\*\* 報告結尾 (End of Report) \*\*

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## 測試報告

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日期(Date) : 2017/09/13

頁數(Page): 1 of 9

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CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

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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):

送樣廠商(Sample Submitted By) : 中華紙漿股份有限公司 (CHUNG HWA PULP CORPORATION)

樣品名稱(Sample Description) : UNCOATED WOODFREE & RECYCLED PAOER (模造道林再生紙類)

應用於(Used For) : 新荷100, 新荷500, 清荷高白環保道林, 清荷米色環保道林, 清荷高白環保影印紙, 特級特白道林, 白道林, 特白模造, 嵩厚特白道林, 新高級雪面劃刊, 高級劃刊, 全木道林, 特級米色塗佈道林, 高級圖書紙, 嵩厚劃刊, 特級象牙道林, 黃彩離型用紙, 米色漫畫用紙, 離型白牛皮紙, 雪白劃刊, 環保白牛皮紙, 上質白道林, 繪圖紙, 塗佈手提袋用紙, 白牛皮紙, 摩爾白道林, 白道林紙, 高級道林紙, 米色道林紙, 米黃道林紙, 淺米黃道林紙, 清白道林紙, 珍白道林紙, 乳白道林紙, 電腦紙, 清白電腦紙, 雷射電腦紙, 離型原紙, 雷射離型紙, 特級雪白道林紙, 特級乳白道林紙, 高級劃刊紙, 特級象牙道林紙, 鬆厚道林紙, 鬆厚微塗紙, 影印紙, 再生影印紙, 全木道林紙, 非碳複寫原紙, 高速封裝用紙, 信封紙, 水晶噴墨紙, 噴墨離型紙, 優質雪白道林, 新象牙道林。 (NEO LOTUS 100 RECYCLED PAPER, NEO LOTUS 500 RECYCLED PAPER, CLEAR LOTUS HI-BRIGHT RECYCLED PAPER, CLEAR LOTUS CREAMY RECYCLED PAPER, SUPERIOR UNCOATED WOODFREE, WHITE UNCOATED WOODFREE, HI-WHITE UNCOATED WOODFREE, BULKY SNOW WHITE UNCOATED WOODFREE, BIT-COATED WOODFREE, SHOW WHITE UNCOATED WOODFREE, SUPERIOR BIT-COATED WOODFREE, CREAMY UNCOATED WOODFREE, HIGH BULKY BOOK PAPER, BULKY BIT-COATED WOODFREE, SUPERIOR IVORY UNCOATED WOODFREE, SUPERIOR UNCOATED WOODFREE, YELLOW KRAFT PAPER, CREAMY HIGH BULKY PRINTING&WRITING PAPER, COPY PAPER, HIGH BULKY BIT-COATED WOODFREE, RECYCLED KRAFT PAPER, EXCELLENT WHITE UNCOATED WOODFREE, DRAWING PAPER, WOODFREE FINE PAPER, IVORY WOODFREE FINE PAPER, CREAM WOODFREE FINE PAPER, BLUISH WHITE WOODFREE FINE PAPER, COPY PAPER, SUPERIOR SNOW-WHITE COATED PAPER, SUPERIOR IVORY COATED PAPER, COMPUTER FORM PAPER)

收件日期(Sample Receiving Date) : 2017/09/06

測試期間(Testing Period) : 2017/09/06 TO 2017/09/13

測試結果(Test Results)

請參閱下一頁 (Please refer to following pages).

Troy Chang, Manager - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



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頁數(Page): 2 of 9

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CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCING S. RD., JHONGZHENG DISTRICT, TAIPEI CITY 100, TAIWAN, R. O. C.



### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 白色紙張 (WHITE PAPER)

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
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.
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	參考 IEC 62321-7-2 (2017), 以 UV-VIS 檢測; 參考 IEC 62321-5 (2013), 以 ICP-AES 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No. : 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	參考 IEC 62321 (2008), 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.

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日期(Date) : 2017/09/13

頁數(Page): 3 of 9

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CHUNG HWA PULP CORPORATION

台北市中正區重慶南路二段51號12樓

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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
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.
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		—	n. d.
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.

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## 測試報告

號碼(No.) : CE/2017/91011

日期(Date) : 2017/09/13

頁數(Page): 4 of 9

## Test Report

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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
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	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.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		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.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg		50	n. d.
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.

## 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. (◆) :

若鉻含量小於六價鉻之方法偵測極限值, 則六價鉻為n. d. , 不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值, 需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.



## 測試報告

## Test Report

號碼(No.) : CE/2017/91011

日期(Date) : 2017/09/13

頁數(Page): 5 of 9

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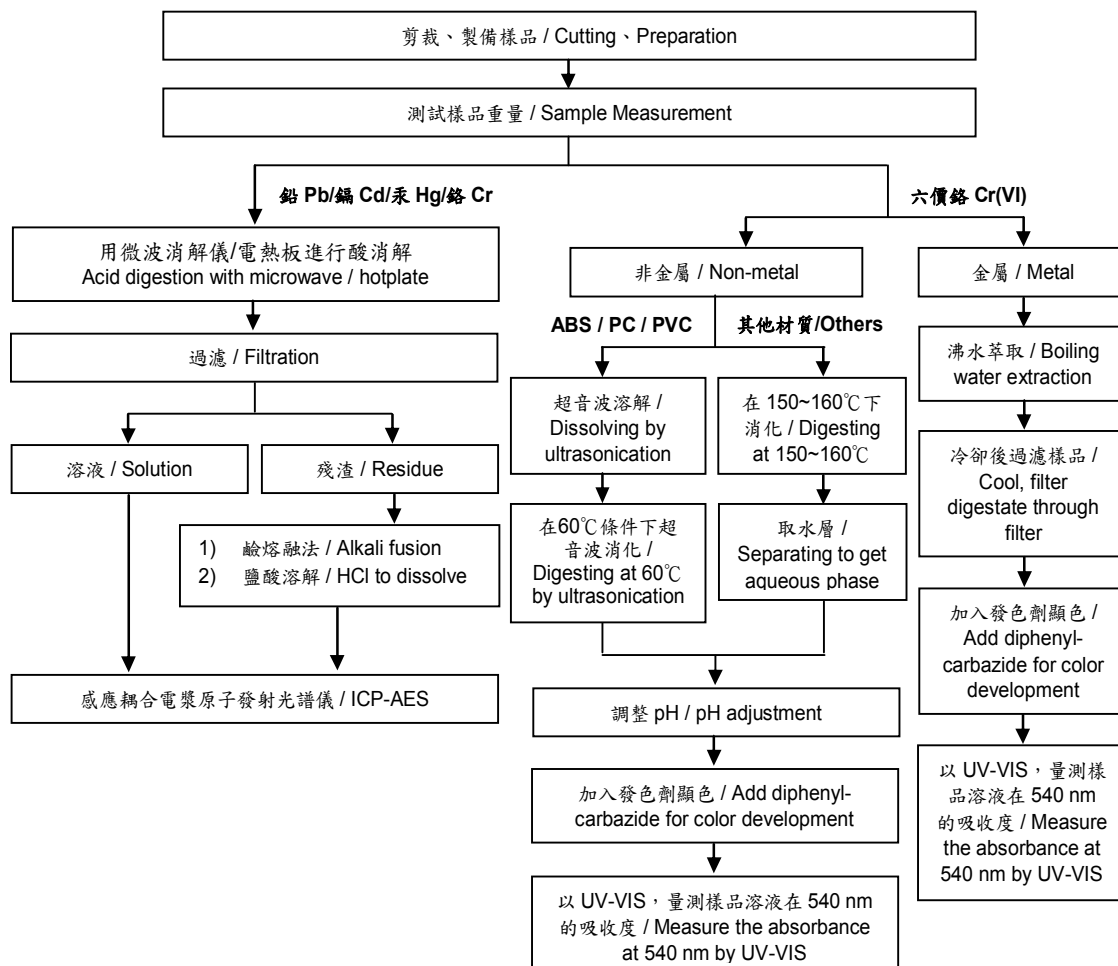


### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician: JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



## 測試報告

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號碼(No.) : CE/2017/91011

日期(Date) : 2017/09/13

頁數(Page): 6 of 9

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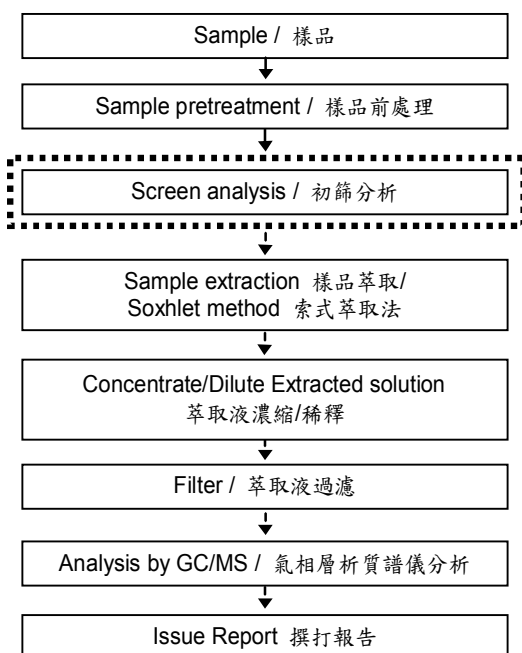
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅琴 / 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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日期(Date) : 2017/09/13

頁數(Page): 7 of 9

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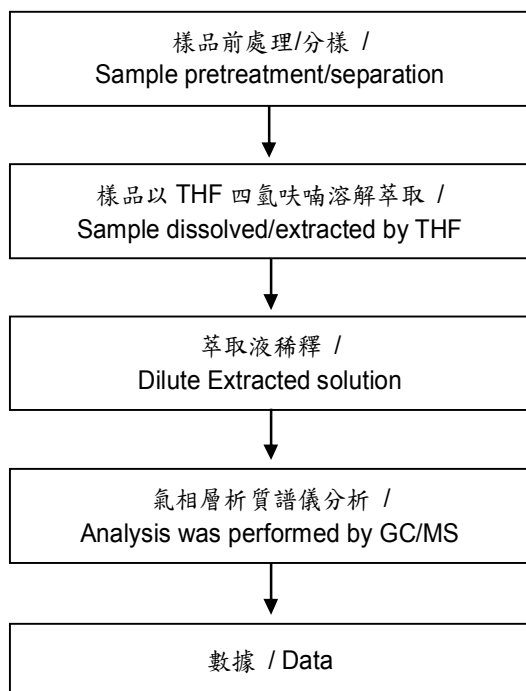
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor: Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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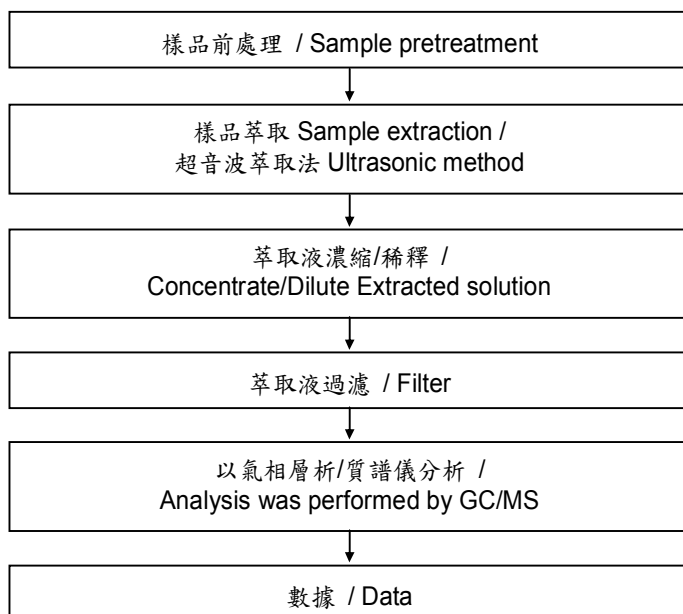
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



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## 測試報告

## Test Report

號碼(No.) : CE/2017/91011

日期(Date) : 2017/09/13

頁數(Page): 9 of 9

中華紙漿股份有限公司

CHUNG HWA PULP CORPORATION

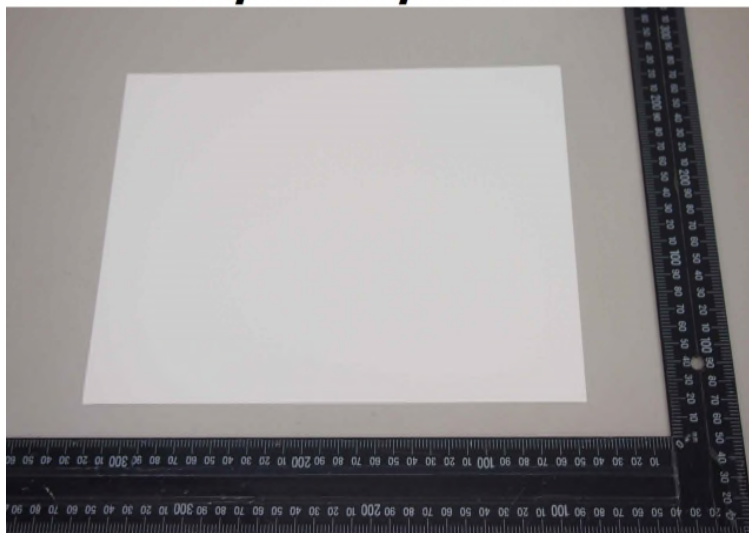
台北市中正區重慶南路二段51號12樓

12F, NO. 51, SEC. 2, CHONGCHING S. RD., JHONGZHENG DISTRICT, TAIPEI CITY 100, 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/2017/91011



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## 測試報告 Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 1 of 9

嘉選企業有限公司

PHOCOLOR COOPERATION CO., LTD.

新北市土城區中央路二段191號7樓之5

7F-5, NO. 191, SEC. 2, CHUNG-YANG RD., TU-CHEN DIST., NEW TAIPEI CITY, TAIWAN



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) :

送樣廠商(Sample Submitted By) : 嘉選企業有限公司 (PHOCOLOR COOPERATION CO., LTD.)  
 樣品名稱(Sample Description) : AQUEOUS COATING, WATER BASED COATING  
 樣品型號(Style/Item No.) : 客戶自行調配之樣品 (SAMPLE IS BLENDED BY CLIENT):AQ610, AQ612, AQ633, AQ664, 4509, 4164, 4449, 3149, 41033, WBS066, WBS054, WBS099, WBS106, WBS165B, WBS075TW, WBS008, WBS048, WBS006, WBS169HS, WBS164C, WBCOAT LM2090G, G9/55C, G9/921, G9/378, G9/585LEM2, G9/381, G9/96, G9/42, GL-46-50, WBS111  
 收件日期(Sample Receiving Date) : 2017/01/17  
 測試期間(Testing Period) : 2017/01/17 TO 2017/01/24

### 測試需求(Test Requested) :

- (1) 依據客戶指定，檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 依據客戶指定，進行鹵素-氟、氯、溴、碘測試. (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

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

Troy Chang, Manager, Tech  
 Signed for and on behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory - Taipei

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# 測試報告

## Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 2 of 9

嘉選企業有限公司

PHOCOLOR COOPERATION CO., LTD.

新北市土城區中央路二段191號7樓之5

7F-5, NO. 191, SEC. 2, CHUNG-YANG RD., TU-CHEN DIST., NEW TAIPEI CITY, TAIWAN



### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 白色液體 (客戶自行調配之樣品) (WHITE LIQUID (SAMPLE IS BLENDED BY CLIENT))

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
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.
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	參考IEC 62321 (2008), 以UV-VIS檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	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/CD (2013), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	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.
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.

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# 測試報告

## Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 3 of 9

嘉選企業有限公司

PHOCOLOR COOPERATION CO., LTD.

新北市土城區中央路二段191號7樓之5

7F-5, NO. 191, SEC. 2, CHUNG-YANG RD., TU-CHEN DIST., NEW TAIPEI CITY, TAIWAN



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
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.
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		—	n. d.
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.

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# 測試報告

## Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 4 of 9

嘉選企業有限公司

PHOCOLOR COOPERATION CO., LTD.

新北市土城區中央路二段191號7樓之5

7F-5, NO. 191, SEC. 2, CHUNG-YANG RD., TU-CHEN DIST., NEW TAIPEI CITY, TAIWAN



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
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	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. : 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. 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)

## 測試報告 Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 5 of 9

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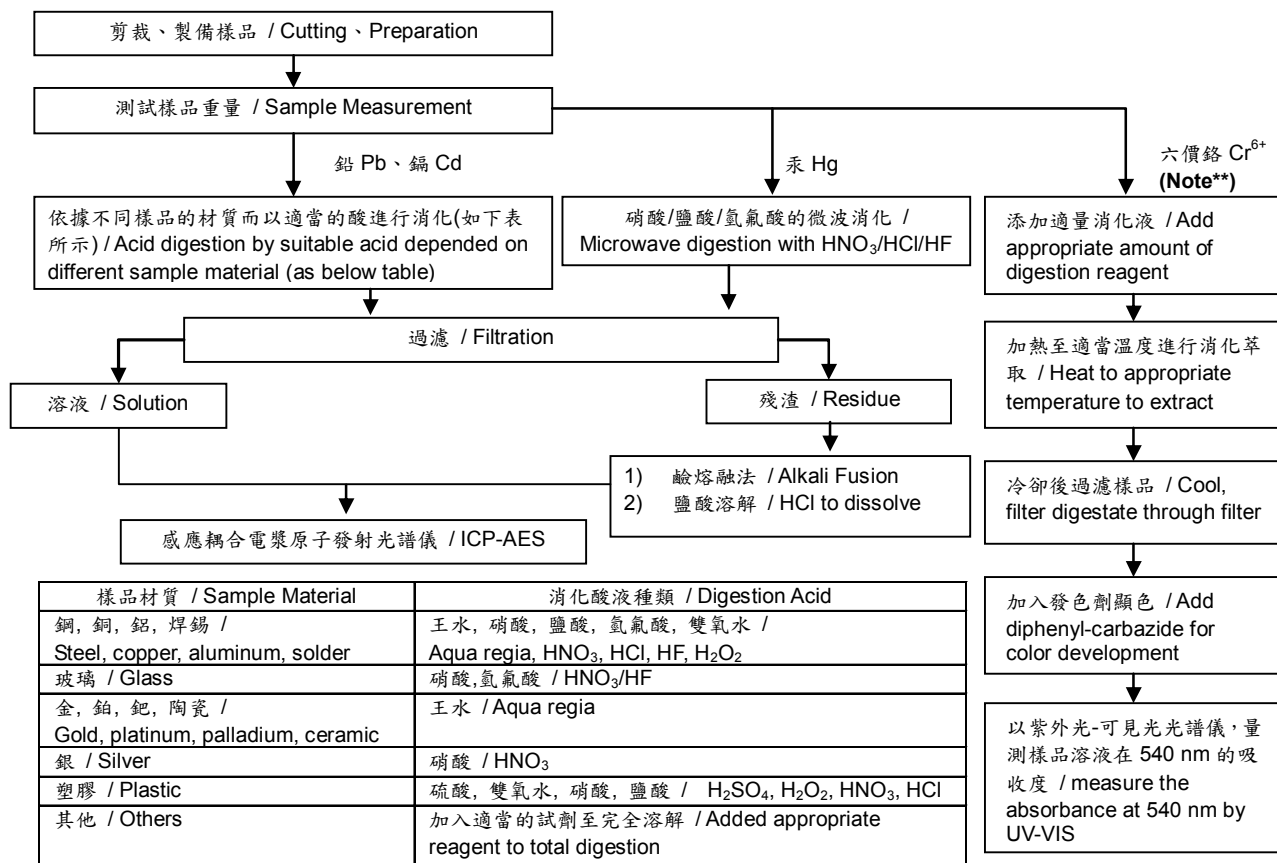
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根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



### Note\*\* (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

## 測試報告 Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 6 of 9

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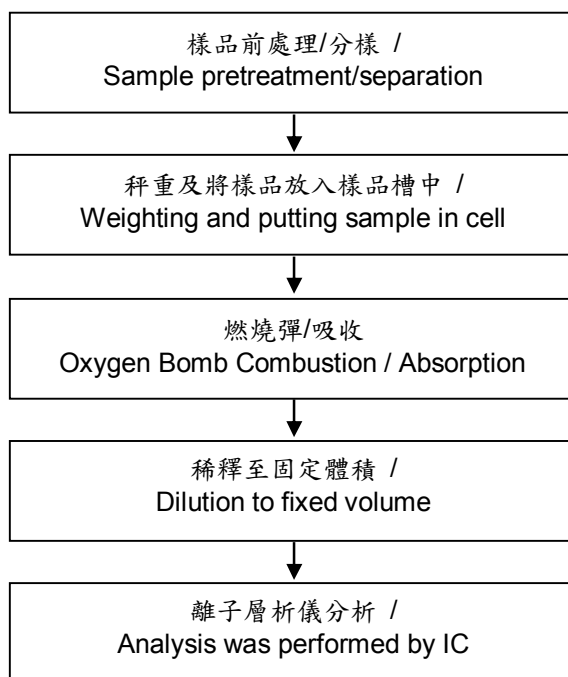
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### 鹵素分析流程圖 / Analytical flow chart - Halogen

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



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## 測試報告 Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 7 of 9

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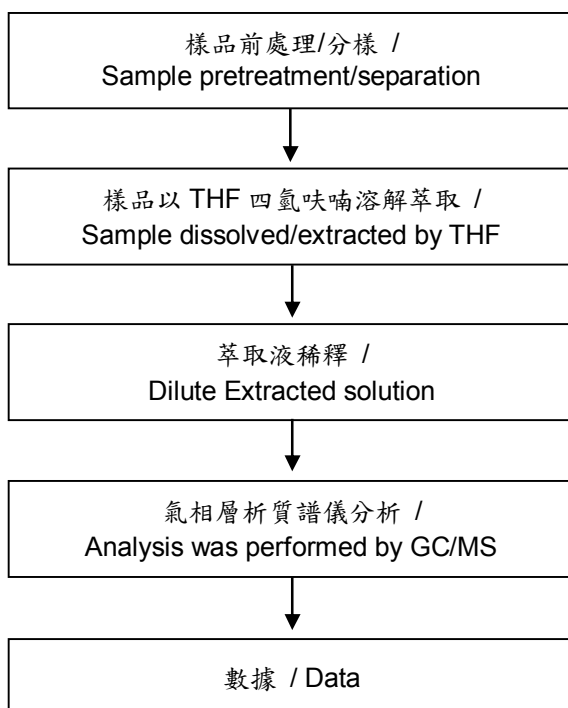
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor: Troy Chang

#### 【測試方法/Test method: IEC 62321-8】



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## 測試報告 Test Report

號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 8 of 9

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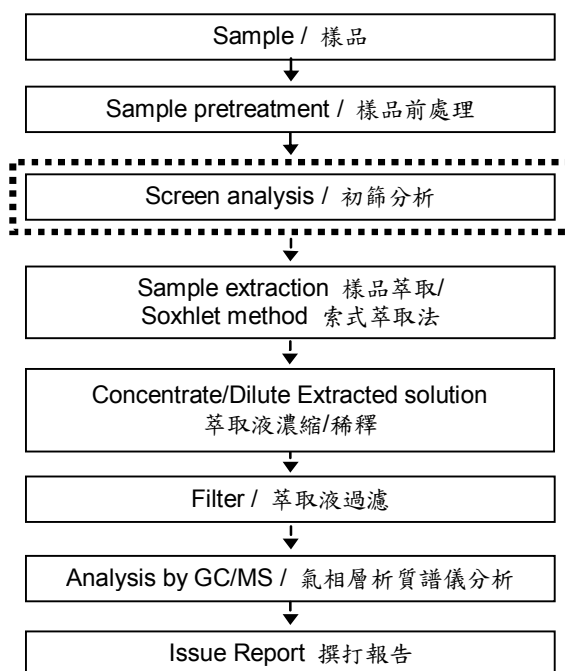
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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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號碼(No.) : CE/2017/13608 日期(Date) : 2017/01/24

頁數(Page) : 9 of 9

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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/2017/13608



\*\* 報告結尾 (End of Report) \*\*

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## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 1 of 11

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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) :

送樣廠商(Sample Submitted By) : BEST CHEMICALS & PLASTICS, INC.  
樣品名稱(Sample Description) : BOPP GLOSSY FILM  
收件日期(Sample Receiving Date) : 2017/05/02  
測試期間(Testing Period) : 2017/05/02 TO 2017/05/08

### 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指令暨(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 and amending Directive (EU) 2015/863.)

Troy Chang, Manager - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



# 測試報告

## Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 2 of 11

BEST CHEMICALS &amp; PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 透明塑膠膜 (TRANSPARENT PLASTIC FILM)

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)	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		2	n. d.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321 (2008)，以UV-VIS檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.	1000
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.	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.	—	

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# 測試報告

## Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 3 of 11

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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)	限值 (Limit)
				No. 1	
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.	—
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考 IEC 62321-8/CD (2013)，以氣相層析儀 / 質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	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 (2-乙基己基) 酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	n. d.	1000
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.	—

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# 測試報告

## Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 4 of 11

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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	限值 (Limit)
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg		10	n. d.	-
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C (2007), 以氣相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.1	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)
5. 此份報告取代CE/2017/50252報告. (This report supersedes the previous document bearing the test report number CE/2017/50252.)

### PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

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 $\mu$ g/m<sup>2</sup>。

(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 $\mu$ g/m<sup>2</sup>.)

## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 5 of 11

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES

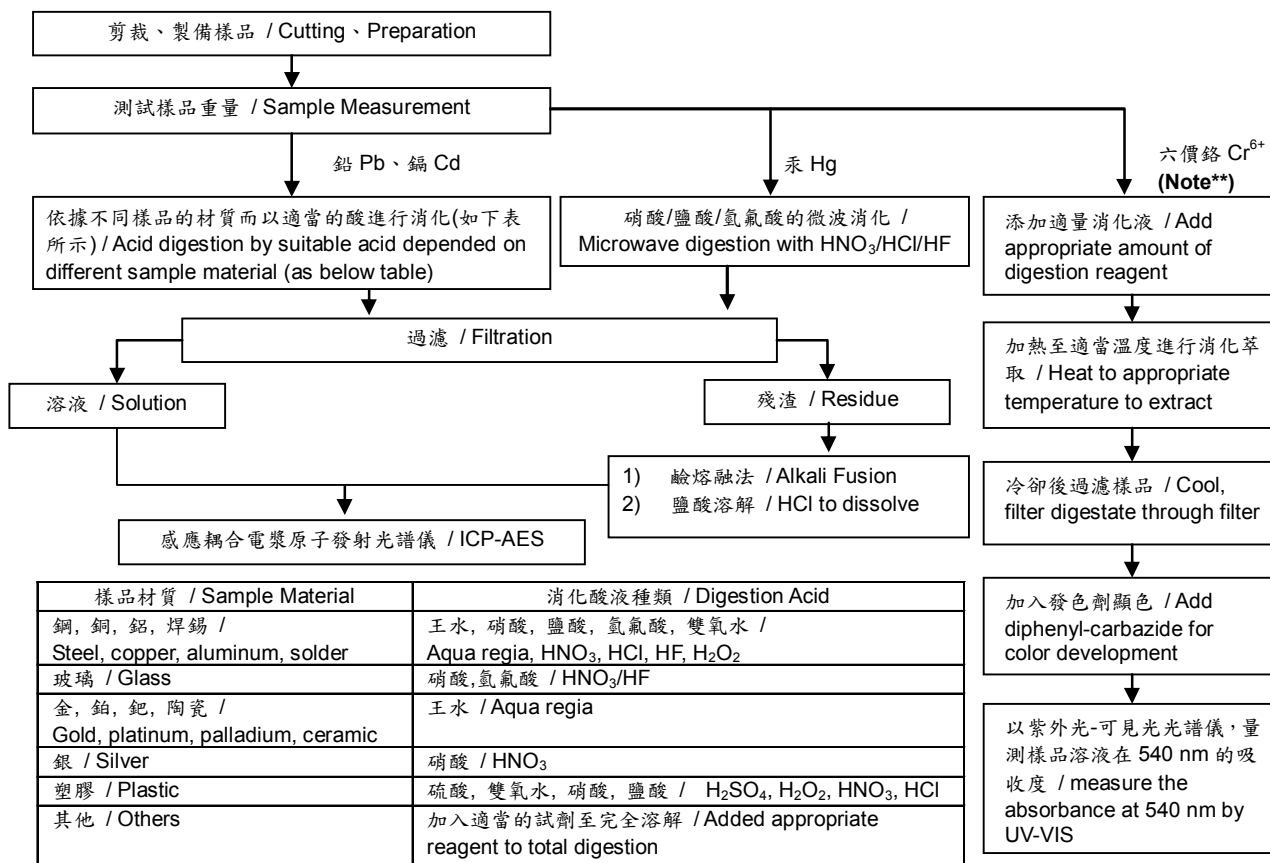


### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



#### Note\*\* (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 6 of 11

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



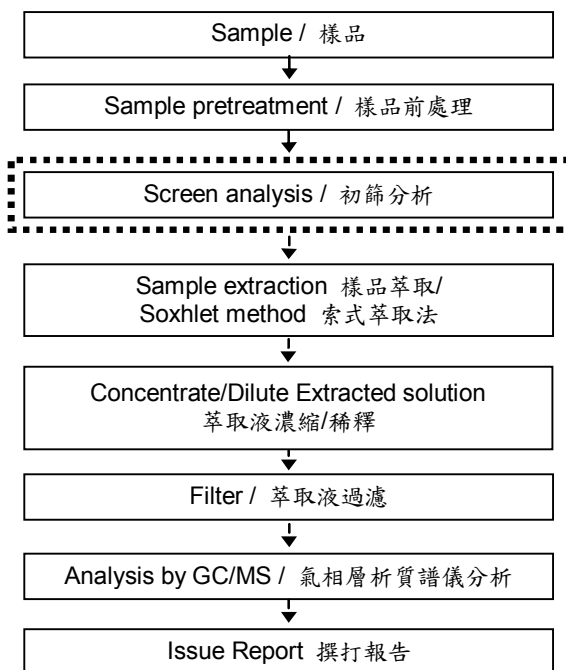
### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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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# 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 7 of 11

BEST CHEMICALS & PLASTICS, INC.

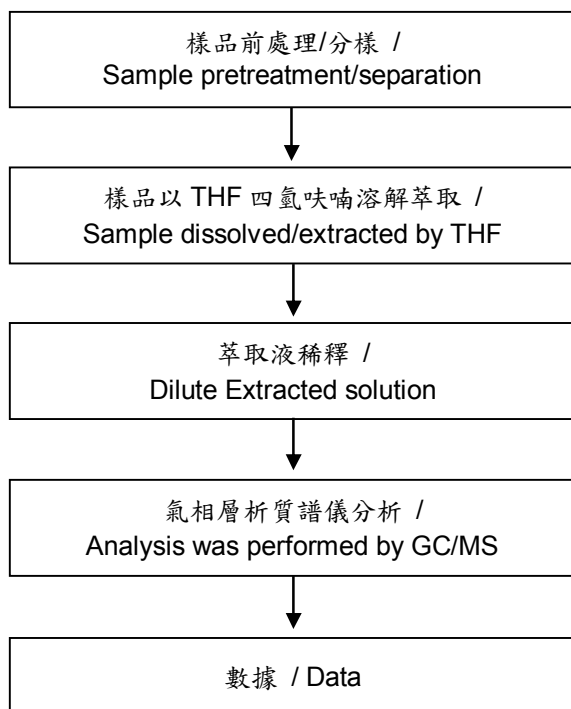
PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 8 of 11

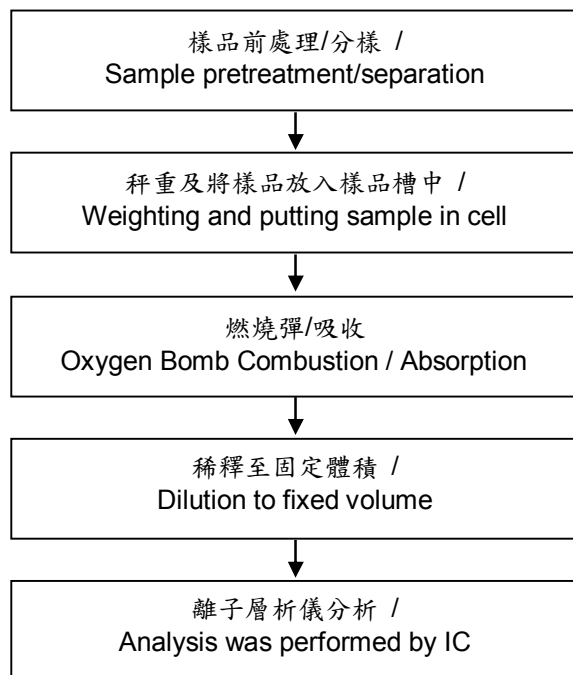
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 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



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## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 9 of 11

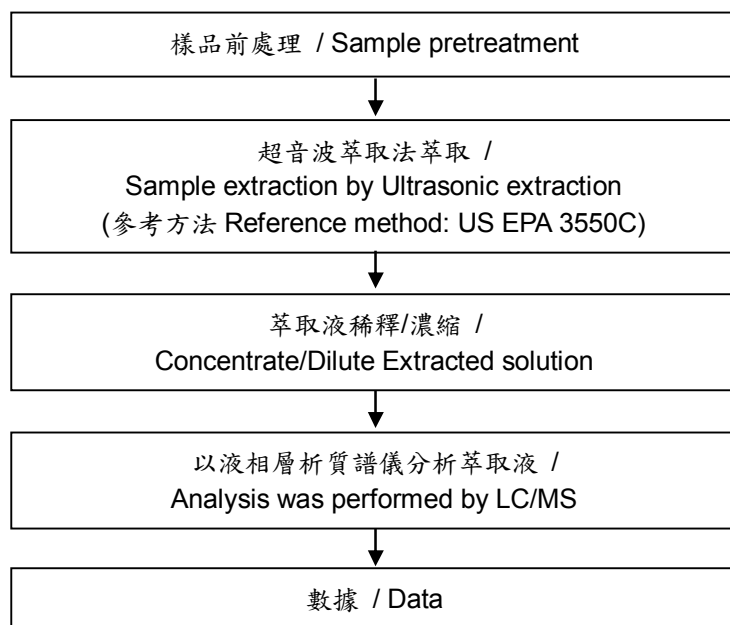
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 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



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## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 10 of 11

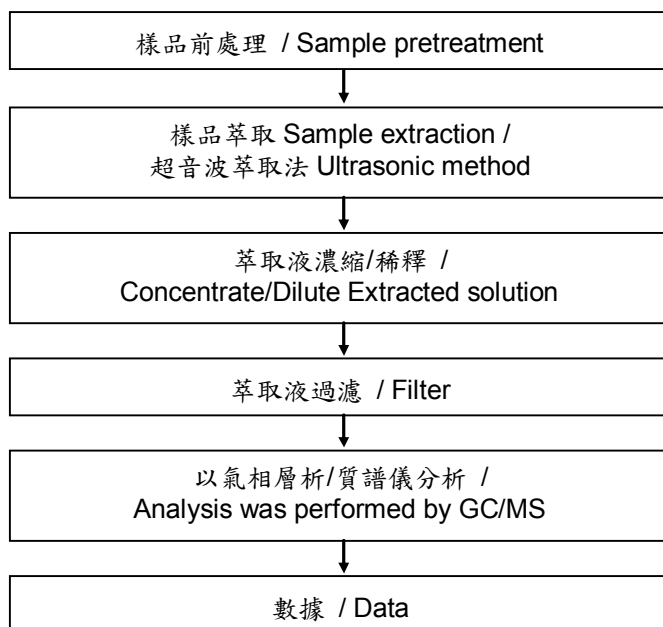
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate

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



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## 測試報告 Test Report

號碼(No.) : CE/2017/50252A

日期(Date) : 2017/05/08

頁數(Page): 11 of 11

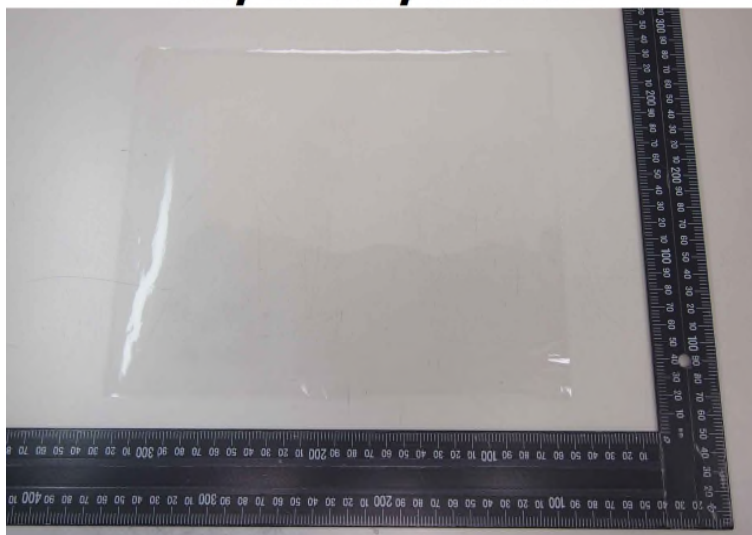
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



\* 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/2017/50252



\*\* 報告結尾 (End of Report) \*\*

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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 1 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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) :


送樣廠商(Sample Submitted By) : BEST CHEMICALS & PLASTICS, INC.  
 樣品名稱(Sample Description) : BOPP MATTE FILM  
 收件日期(Sample Receiving Date) : 2017/07/11  
 測試期間(Testing Period) : 2017/07/11 TO 2017/07/18

### 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指令暨(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 and amending Directive (EU) 2015/863.)

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



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 2 of 12

BEST CHEMICALS &amp; PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



## 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 半透明薄膜 (TRANSLUCENT FILM)

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)	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		2	n. d.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	mg/kg	參考 IEC 62321-7-2 (2017)，以 UV-VIS 檢測；參考 IEC 62321-5 (2013)，以 ICP-AES 檢測。 / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.	1000
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.	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.	-	

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# 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 3 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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)	限值 (Limit)
				No. 1	
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.	-
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	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.	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(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n. d.	1000
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.	-

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# 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 4 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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)	限值 (Limit)
				No. 1	
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.	-
全氟辛酸 / PFOA (CAS No. : 335-67-1)	mg/kg	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.	-
富馬酸二甲酯 / Dimethyl Fumarate (CAS No. : 624-49-7)	mg/kg	參考US EPA 3550C (2007), 以氣相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.	0.1	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)
5. (◆) :

若鉻含量小於六價鉻之方法偵測極限值, 則六價鉻為n. d. , 不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值, 需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.



## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 5 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

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  $1\mu\text{g}/\text{m}^2$ .)

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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 6 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES

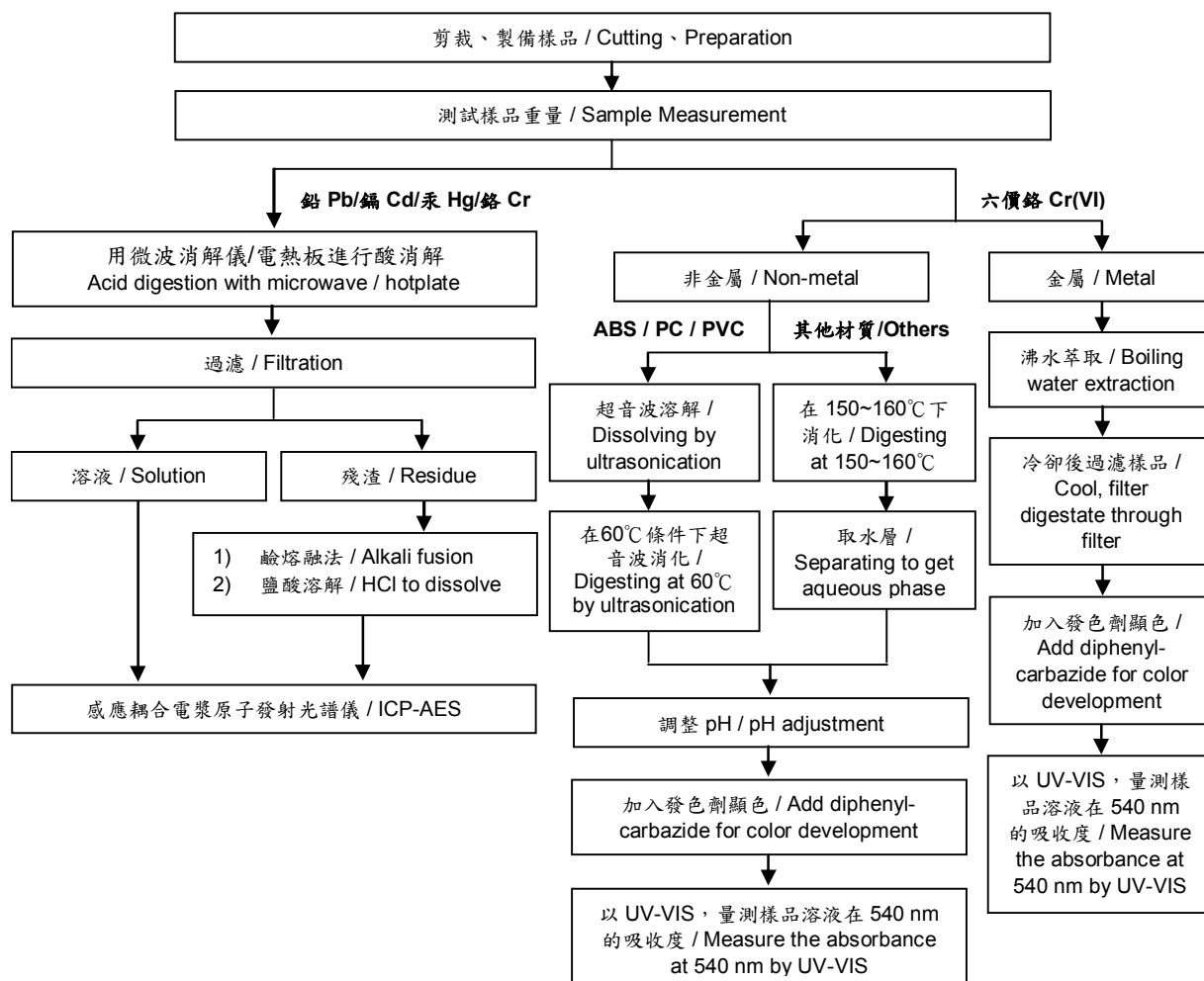


### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 7 of 12

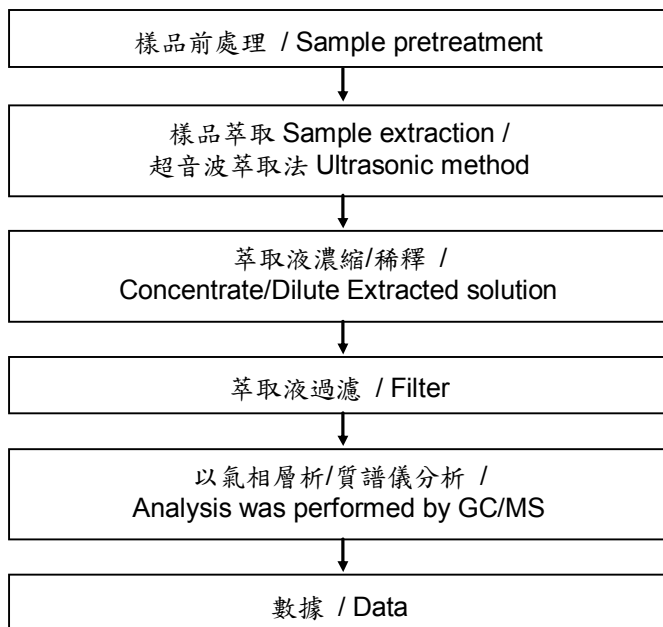
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate

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



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 8 of 12

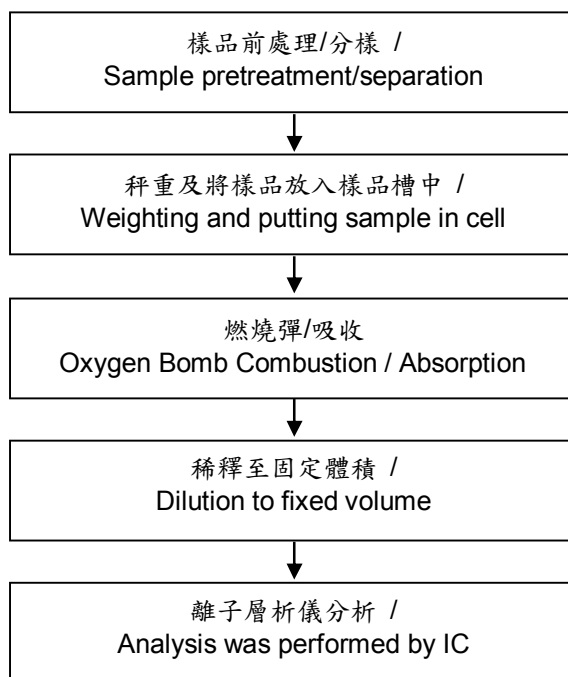
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 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



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 9 of 12

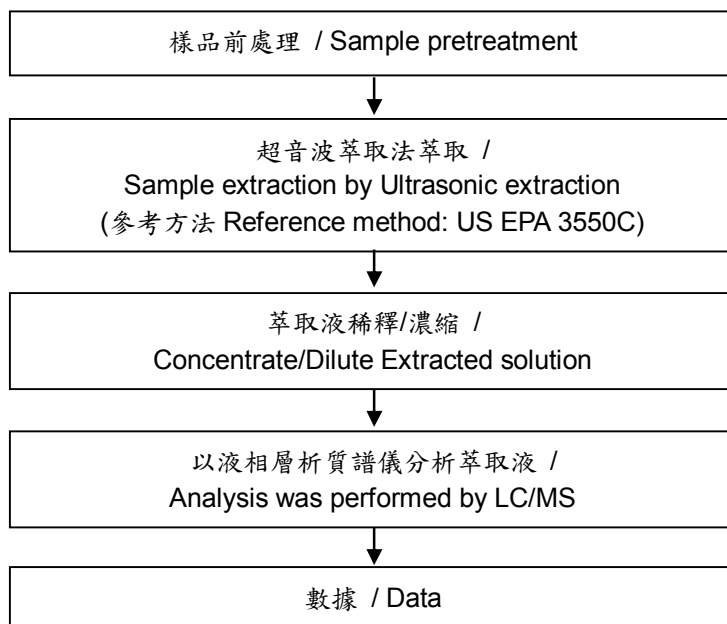
BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 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



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 10 of 12

BEST CHEMICALS & PLASTICS, INC.

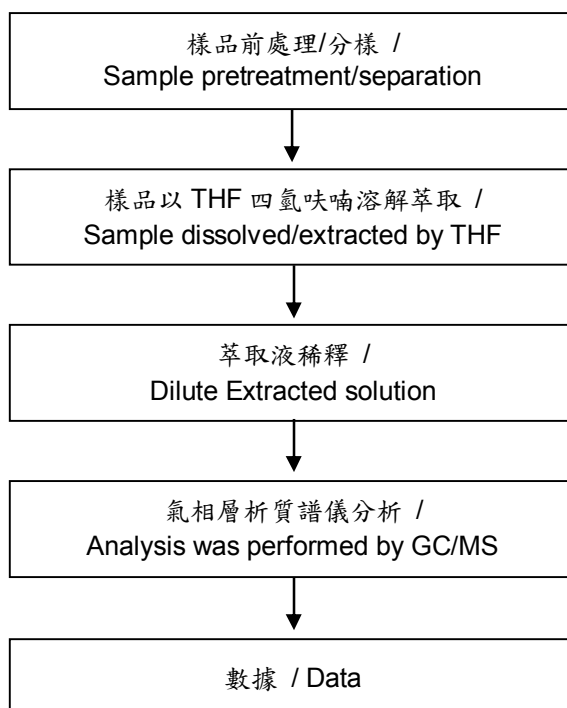
PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



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

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor: Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 11 of 12

BEST CHEMICALS & PLASTICS, INC.

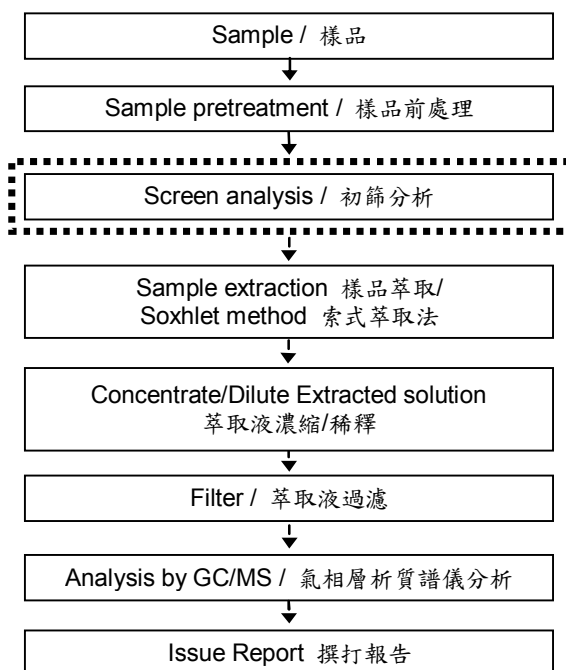
PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



### 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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## 測試報告

## Test Report

號碼(No.) : CE/2017/72384

日期(Date) : 2017/07/18

頁數(Page): 12 of 12

BEST CHEMICALS & PLASTICS, INC.

PTC-SEZ, GOVERNOR'S DRIVE, BARRIO MADUYA, CARMONA, CAVITE 4116, PHILIPPINES



\* 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/2017/72384



\*\* 報告結尾 (End of Report) \*\*

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## 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 1 of 11

東京油墨株式會社

TOKYO PRINTING INK MFG. CO., LTD.

日本東京都北區田端新町2-7-15目

2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN



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) :

送樣廠商(Sample Submitted By) : 奇豐油墨有限公司 (CHI FENG PRINTING INK CO., LTD.)

樣品名稱(Sample Description) : SOY CERVO (YELLOW, MAGENTA, CYAN, BLACK)

收件日期(Sample Receiving Date) : 2017/05/15

測試期間(Testing Period) : 2017/05/15 TO 2017/05/22

測試需求(Test Requested) : 依據客戶指定, 參考RoHS2011/65/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).)

測試方法(Test Method) : 請參閱下一頁 (Please refer to following pages).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following 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、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(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 and amending Directive (EU) 2015/863.)

  
Troy Chang, Manager-Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

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# 測試報告

## Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 2 of 11

東京油墨株式會社

TOKYO PRINTING INK MFG. CO., LTD.

日本東京都北區田端新町2-7-15目

2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN



### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 黃色油墨 (YELLOW INK)  
 測試部位(PART NAME)No. 2 : 紅色油墨 (MAGENTA INK)  
 測試部位(PART NAME)No. 3 : 藍色油墨 (CYAN INK)  
 測試部位(PART NAME)No. 4 : 黑色油墨 (BLACK INK)

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)			限值 (Limit)
				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.	n. d.	100
鉛 / Lead (Pb)	mg/kg		2	n. d.	n. d.	n. d.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	mg/kg	參考IEC 62321-7-2 (2017), 以UV-VIS檢測; 參考IEC 62321-5 (2013), 以ICP-AES檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.	n. d.	n. d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	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.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.	n. d.	n. d.	1000

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# 測試報告

## Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 3 of 11

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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)			限值 (Limit)
				No. 1	No. 2	No. 3	
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.	n. d.	1000
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.	n. d.	1000
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.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		—	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—

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# 測試報告

## Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 4 of 11

東京油墨株式會社

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日本東京都北區田端新町2-7-15目

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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)	限值 (Limit)
				No. 4	
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		2	n. d.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI) (◆)	mg/kg	參考 IEC 62321-7-2 (2017), 以 UV-VIS 檢測; 參考 IEC 62321-5 (2013), 以 ICP-AES 檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES.	8	n. d.	1000
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.	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.	-	

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# 測試報告

## Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 5 of 11

東京油墨株式會社

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2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN



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	限值 (Limit)
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.	—
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	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.	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(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	n. d.	1000

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# 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 6 of 11

東京油墨株式會社

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2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN



## 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. (◆) :

若鉻含量小於六價鉻之方法偵測極限值，則六價鉻為n.d.，不須再測試六價鉻。

The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.

若鉻含量未小於六價鉻之方法偵測極限值，需進行六價鉻測試。

If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.



## 測試報告 Test Report

東京油墨株式會社

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日本東京都北區田端新町2-7-15目

2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 7 of 11

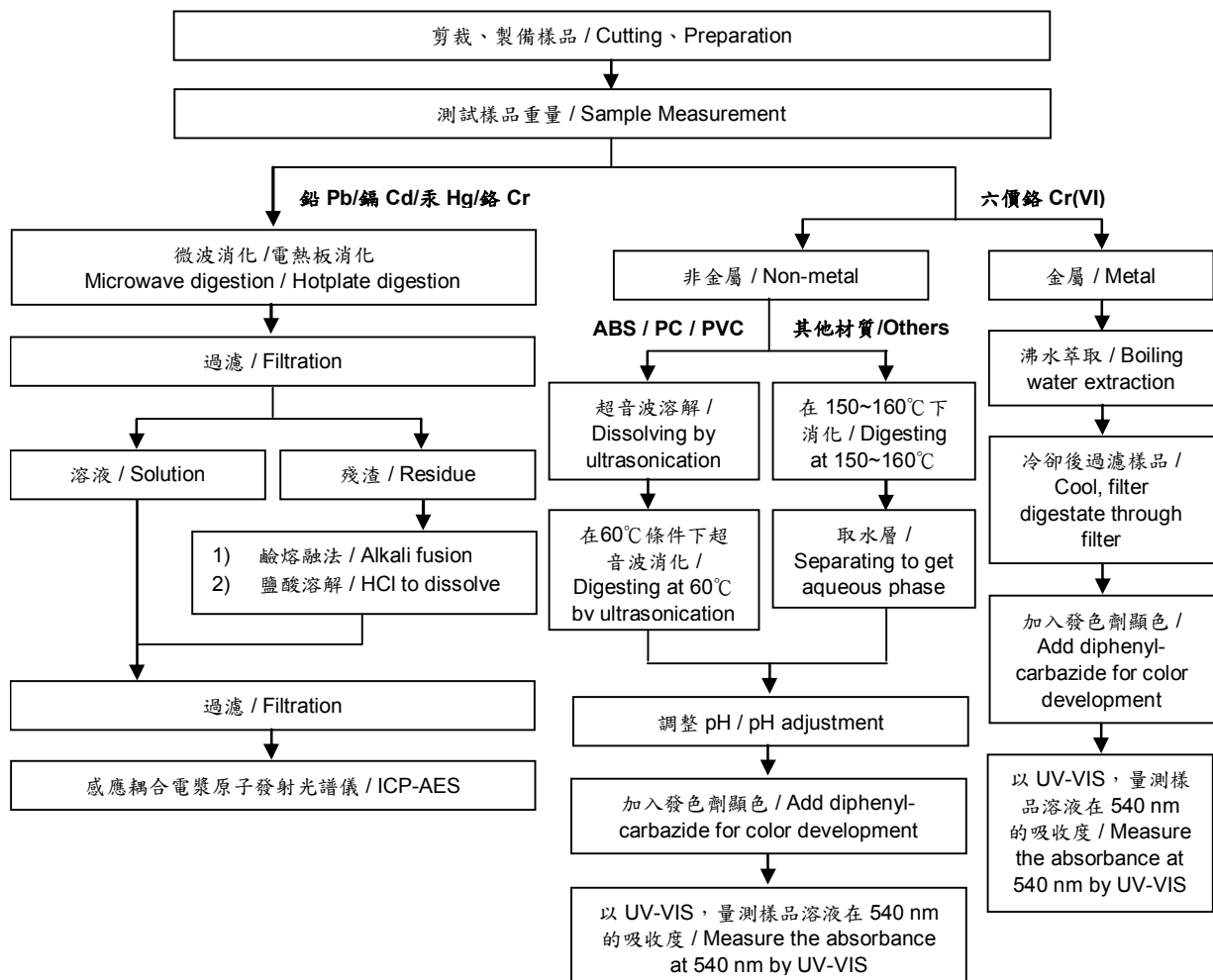


### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



## 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 8 of 11

東京油墨株式會社

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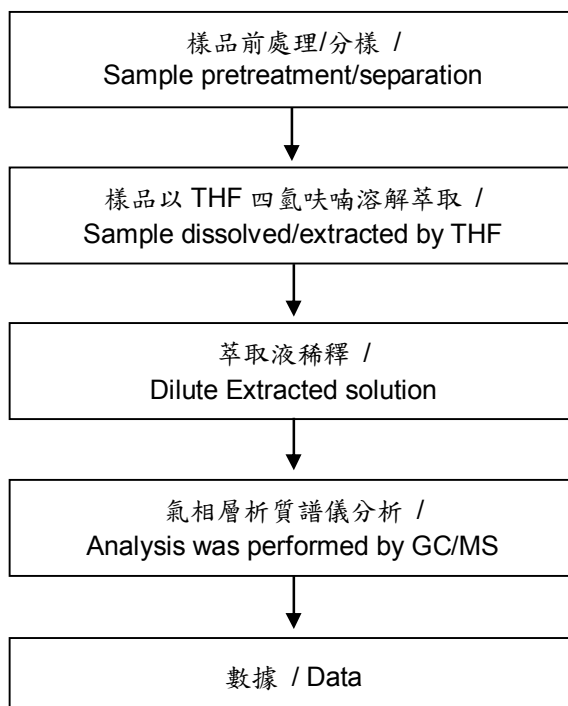
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

#### 【測試方法/Test method: IEC 62321-8】



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## 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 9 of 11

東京油墨株式會社

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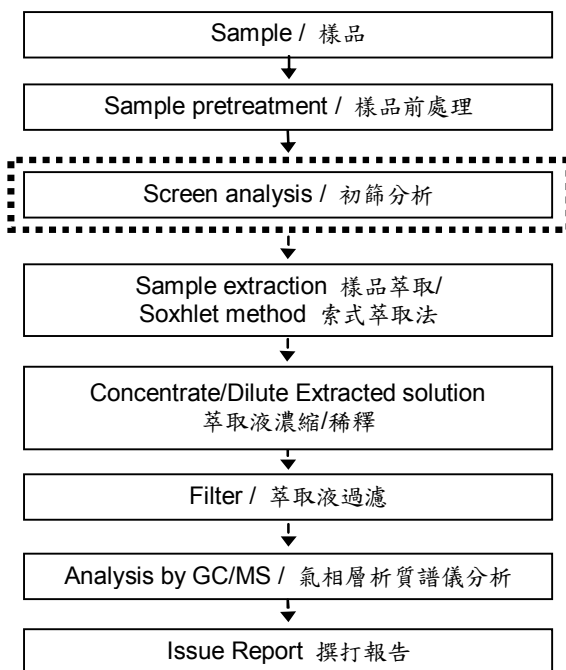
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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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## 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 10 of 11

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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/2017/52881 NO.1



### CE/2017/52881 NO.2



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## 測試報告 Test Report

號碼(No.) : CE/2017/52881 日期(Date) : 2017/05/22

頁數 (Page) : 11 of 11

東京油墨株式會社

TOKYO PRINTING INK MFG. CO., LTD.

日本東京都北區田端新町2-7-15目

2-7-15, TABATASHINMACHI, KITA-KU, TOKYO, JAPAN



### CE/2017/52881 NO.3



### CE/2017/52881 NO.4



\*\* 報告結尾 (End of Report) \*\*

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## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 1 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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) :

送樣廠商(Sample Submitted By) : 奇豐油墨有限公司 (CHI FENG PRINTING INK CO., LTD.)  
 樣品名稱(Sample Description) : COMAX-(YELLOW, MAGENTA, CYAN, BLACK)  
 收件日期(Sample Receiving Date) : 2017/04/17  
 測試期間(Testing Period) : 2017/04/17 TO 2017/04/24

=====

測試需求(Test Requested) : 依據客戶指定, 參考RoHS2011/65/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).)

測試方法(Test Method) : 請參閱下一頁 (Please refer to following pages).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following 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、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS指令暨(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 and amending Directive (EU) 2015/863.)

  
 Troy Chang, Manager - Tech  
 Signed for and on behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory - Taipei



## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 2 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



## 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 黃色油墨 (YELLOW INK)  
 測試部位(PART NAME)No. 2 : 紅色油墨 (MAGENTA INK)  
 測試部位(PART NAME)No. 3 : 藍色油墨 (CYAN INK)  
 測試部位(PART NAME)No. 4 : 黑色油墨 (BLACK INK)

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)			限值 (Limit)
				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.	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.	n. d.	n. d.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321 (2008), 以 UV-VIS 檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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# 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 3 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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)			限值 (Limit)
				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.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	—
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		—	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	—

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# 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 4 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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)			限值 (Limit)
				No. 1	No. 2	No. 3	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考 IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.	n. d.	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.	n. d.	n. d.	1000
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.	n. d.	1000

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)	限值 (Limit)
				No. 4	
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

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# 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 5 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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)	限值 (Limit)
				No. 4	
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321 (2008), 以 UV-VIS 檢測. / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考 IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	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 (2-乙基己基) 酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	n. d.	1000

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## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 6 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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	限值 (Limit)
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.	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		-	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.	-

## 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

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 7 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA

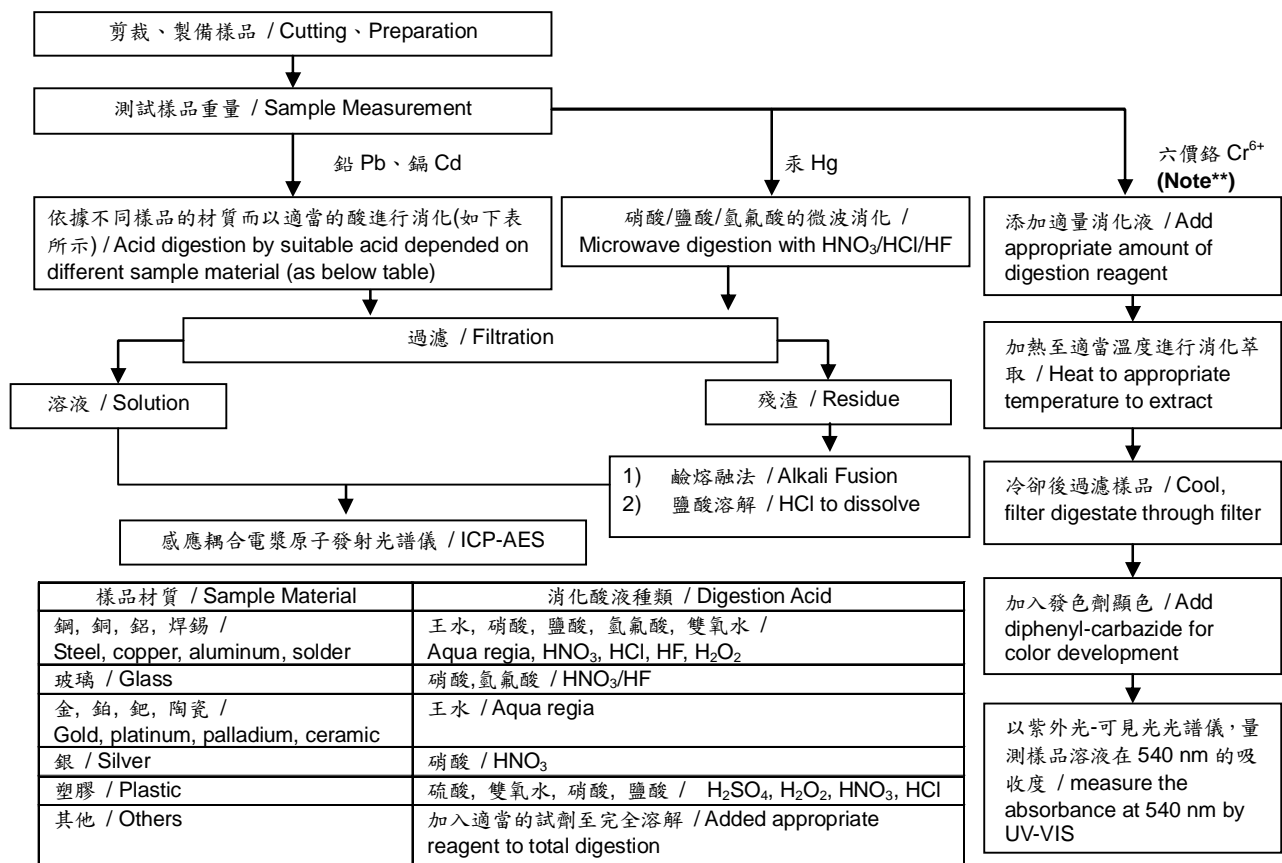


## 重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr<sup>6+</sup> test method excluded)

- 測試人員：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



## Note\*\* (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 8 of 11

DONG YANG INK CO., LTD.

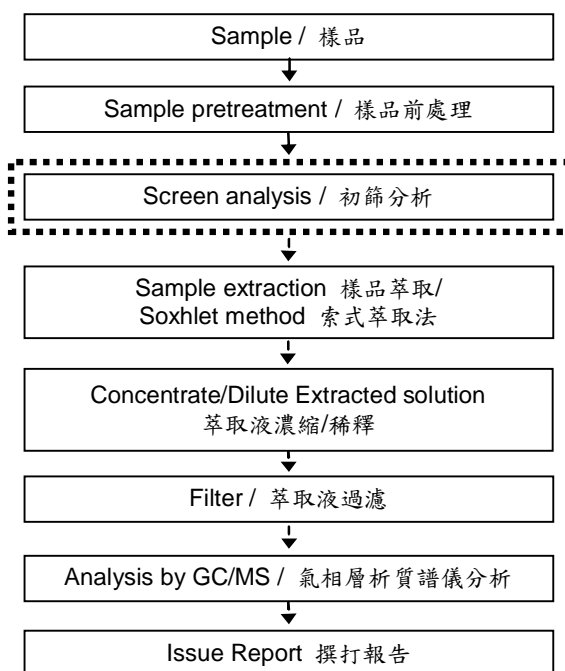
338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



### 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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## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 9 of 11

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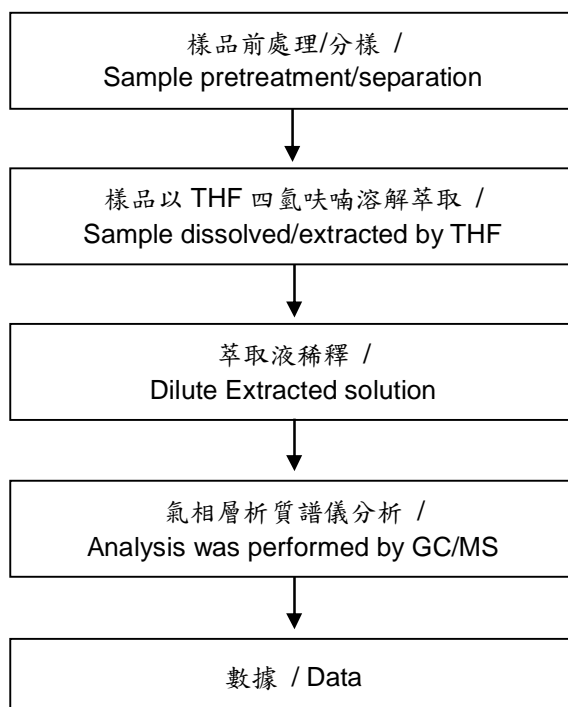
338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



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

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

### 【測試方法/Test method: IEC 62321-8】



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## 測試報告

## Test Report

號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 10 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



\* 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/2017/42769 NO.1



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號碼(No.) : CE/2017/42769 日期(Date) : 2017/04/24

頁數 (Page) : 11 of 11

DONG YANG INK CO., LTD.

338-6, KAGOK-RI, JINWI-MYUN, PYUNGTAEK-CITY, KYUNGKI-DO, KOREA



### CE/2017/42769 NO.3



### CE/2017/42769 NO.4



\*\* 報告結尾 (End of Report) \*\*

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