

測試報告

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 1 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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) : 禎朗企業有限公司 (CORATEX ENTERPRISE CO., LTD.)
樣品名稱(Sample Description) : ANTI-STATIC SOFT TIPPY TAPE (BLACK) (日本抗靜電軟帶-黑色)
樣品型號(Style/Item No.) : TP-001B (AST812)
收件日期(Sample Receiving Date) : 2016/08/02
測試期間(Testing Period) : 2016/08/02 TO 2016/08/09

測試需求(Test Requested) :

- (1) 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.)
- (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



測試報告

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 2 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.



測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色塑膠帶 (BLACK PLASTIC TAPE)

| 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. |
| 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. |

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 <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 3 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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. | |
| 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 (α -HBCDD, β -HBCDD, γ -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. |

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 <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 4 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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/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. |
| 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. |
| 聚氯乙烯 / PVC | ** | 以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test. | - | Negative |
| 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 <http://www.sgs.com/en/Terms-and-Conditions/Termse-Document.aspx>. 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 5 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.



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. **= Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)

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

測試報告

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 6 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.
 (禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)
 新北市中和區中正路880號15樓之3
 15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.

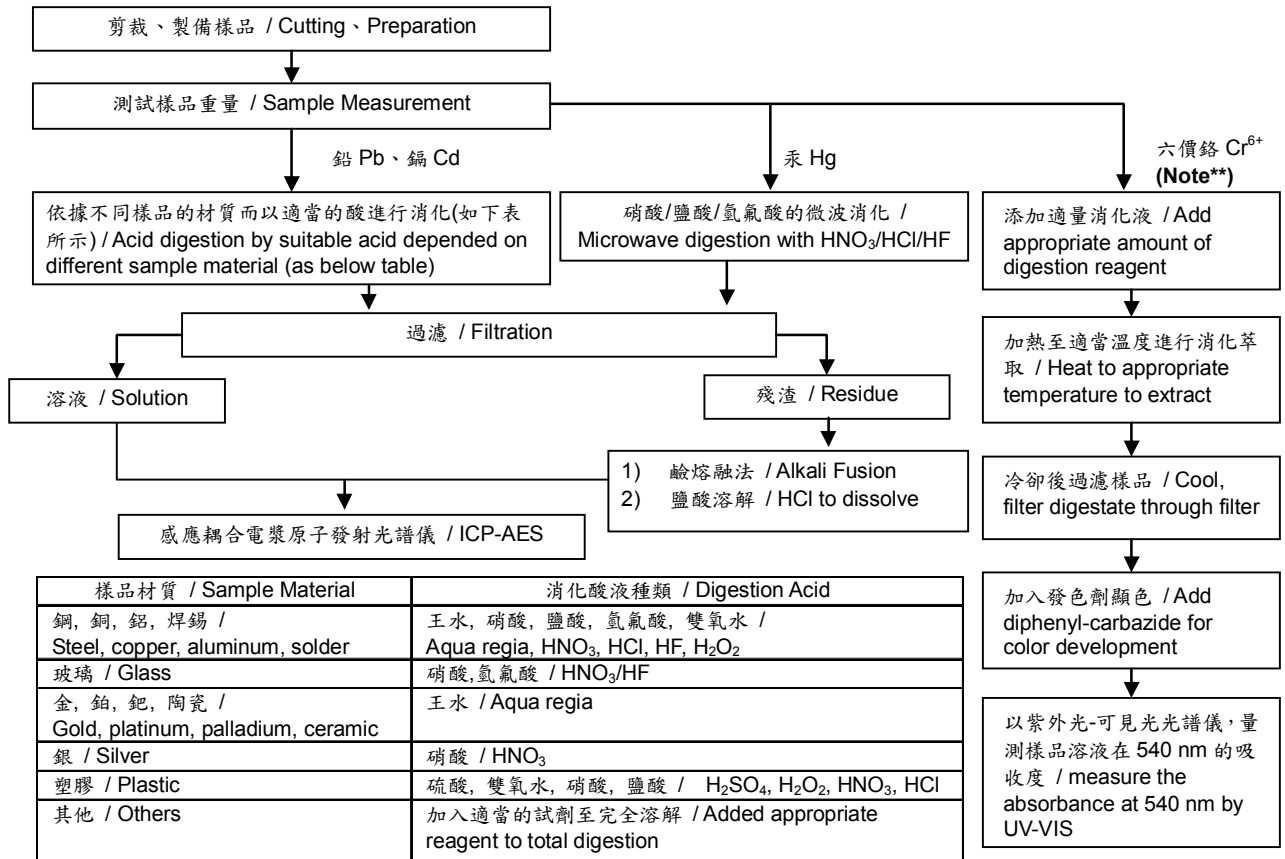


重金屬流程圖 / Analytical flow chart of Heavy Metal (IEC 62321)

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)

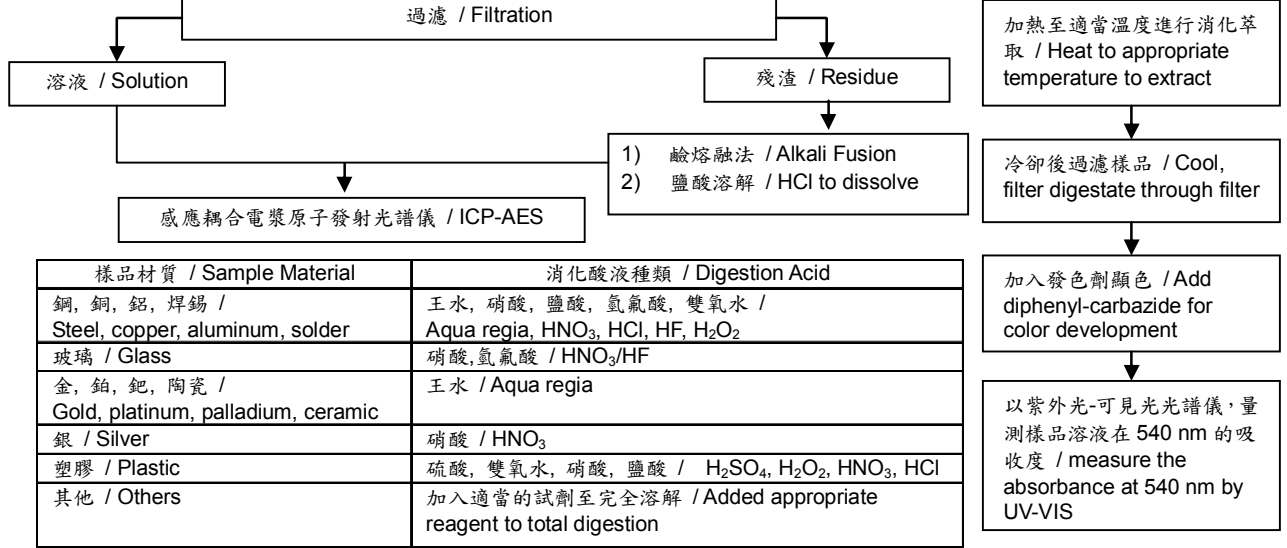
These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：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.



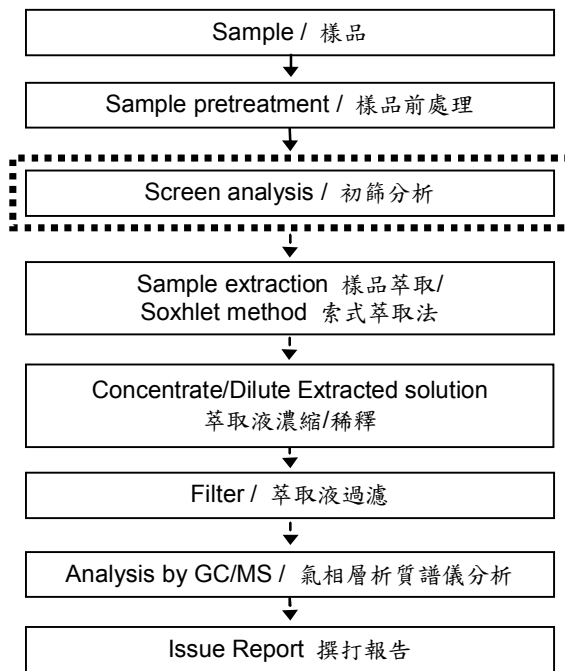
Note (For IEC 62321)**

- (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.

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 - - - .>



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 <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 8 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

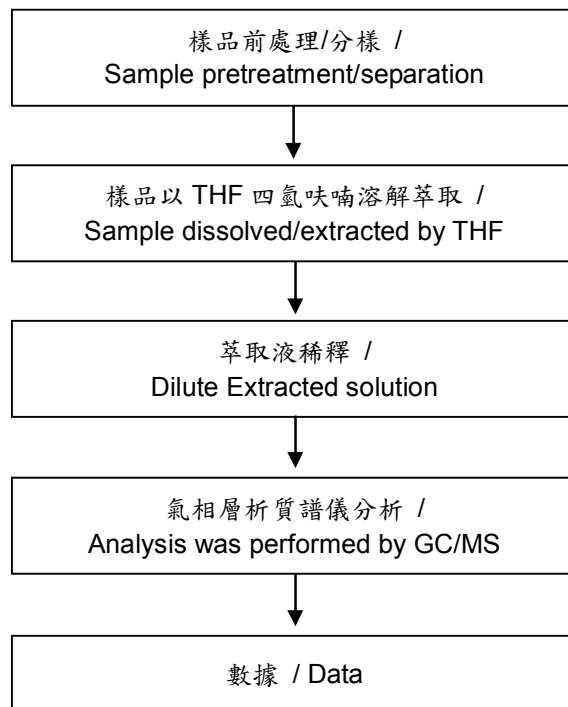
15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.



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】



測試報告

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 9 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

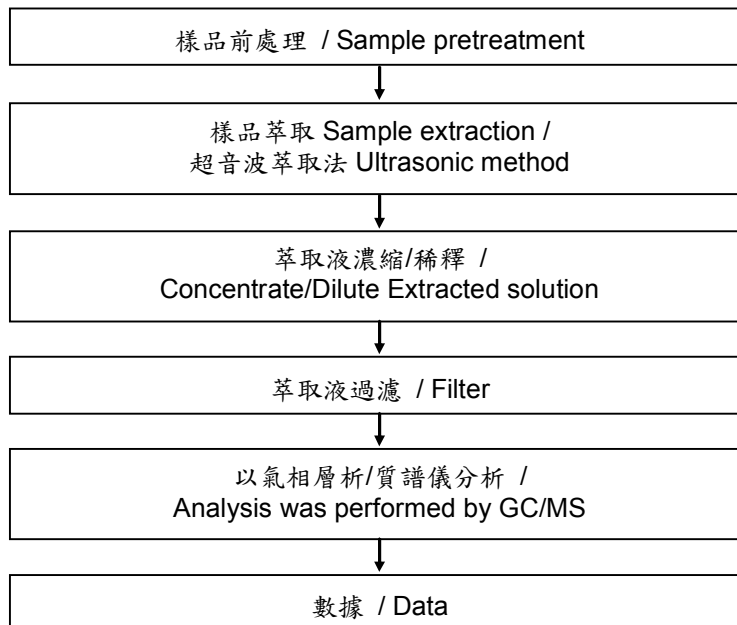
新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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



測試報告

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 10 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

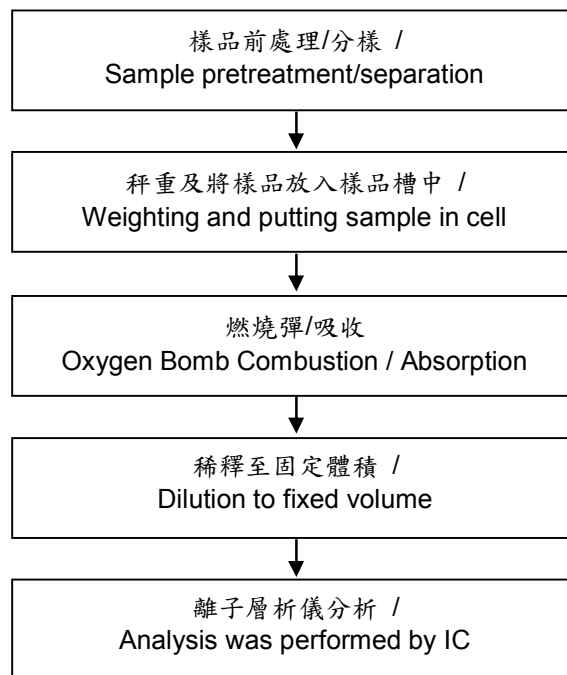
新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 11 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

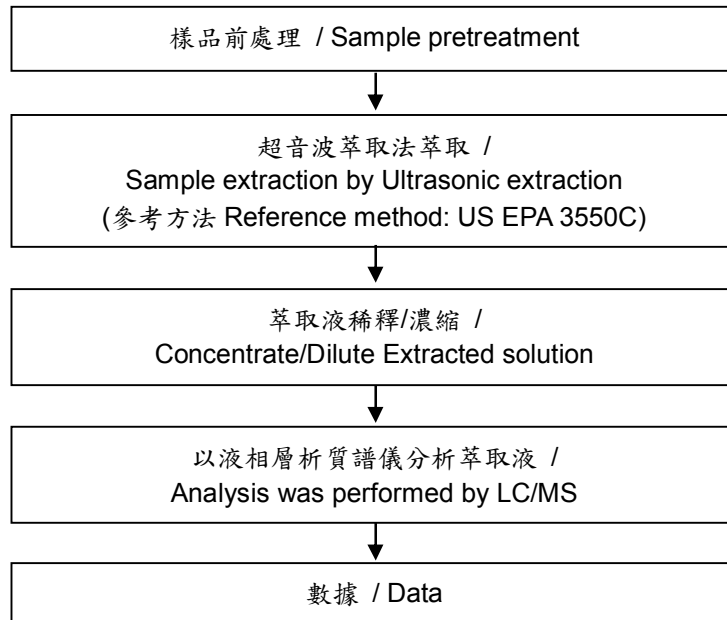
新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 12 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

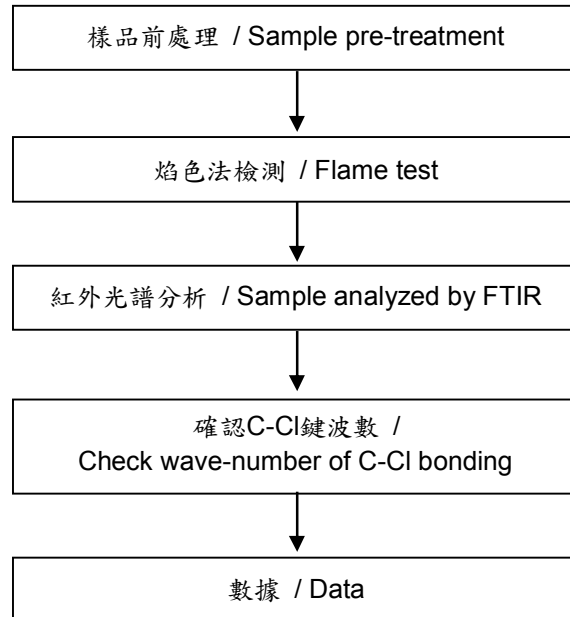
新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.



聚氯乙稀物質判定分析流程圖 / Analysis flow chart - PVC

- 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

Test Report

號碼(No.) : CE/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 13 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

新北市中和區中正路880號15樓之3

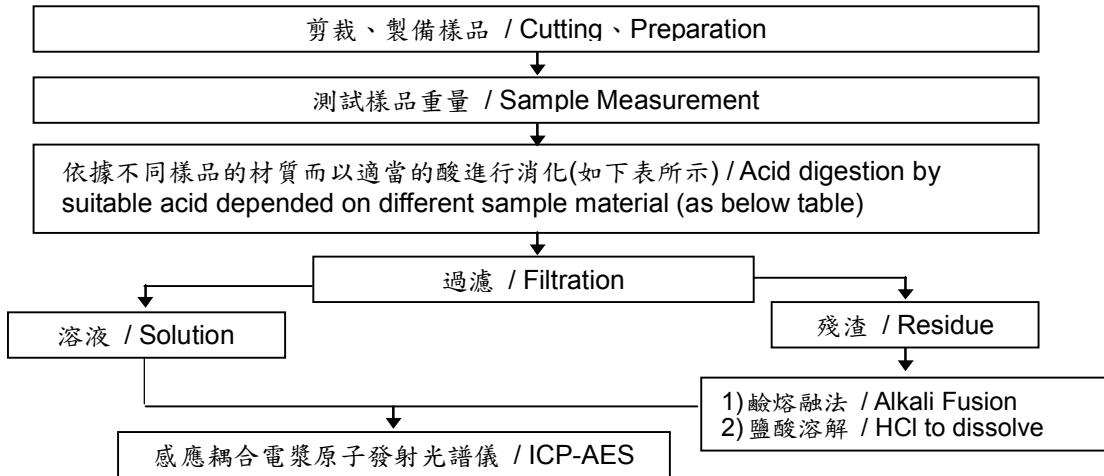
15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN R. O. C.



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：王志瑋 / Technician: JR Wang
- 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/2016/80347

日期(Date) : 2016/08/09

頁數(Page): 14 of 14

禎朗企業有限公司 / CORATEX ENTERPRISE CO., LTD.

(禎欣實業有限公司 / JHEN SIN INDUSTRY CO., LTD.)

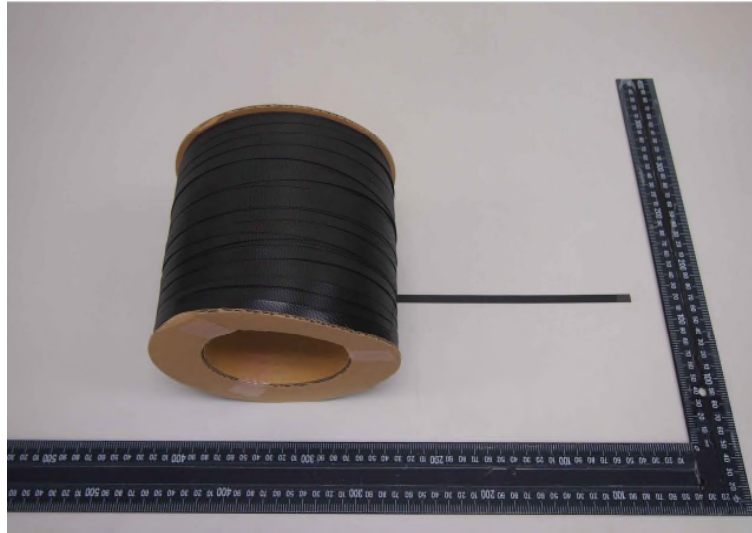
新北市中和區中正路880號15樓之3

15F-3, NO. 880, JHONGJHENG RD., JHONGHE DIST., NEW TAIPEI CITY 235, 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/2016/80347



** 報告結尾 (End of Report) **