承　　認　　書

SPECIFICATION FOR APPROVAL

客戶:鈺緯科技開發股份有限公司

品名:M1-20G 保護膜

規格:0.05t*501mm*350mm

料號:3MD666FM010

主 管	審 查	製 作
游鈺衡	游鈺崧	王瀞融

俐 元 企 業 股 份 有 限 公 司

俐 誠 企 業 股 份 有 限 公 司

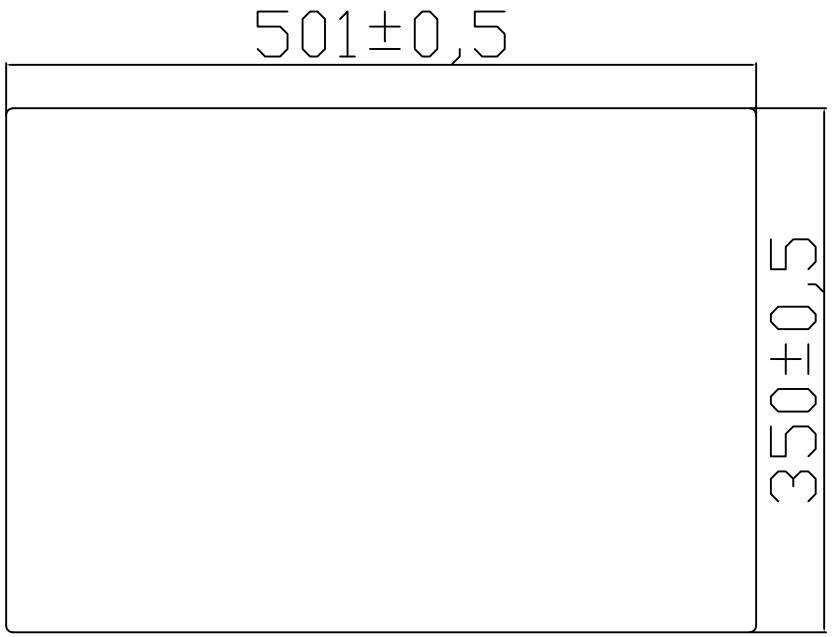
LI YUN ENTERPRISE CO., LTD.

LI CHENG ENTERPRISE CO., LTD.

地 址 : 新 北 市 樹 林 區 三 龍 街 2 0 - 1 號

電話:(02)8688-8680　　傳真:(02)8688-8678

中 華 民 國 112 年 07 月 24 日



材質：M1－20G 保護膜

規格：501mm＊350mm

MARK	DATE	DESCRIPTION	REVISION

TOLERANCE		APPROVED:	SCALE 1:1	UNIT mm
0mm-15mm	±0.20			SIZE A4
15mm-30mm	±0.20	CHECKED:	MATERIAL:	
30mm-50mm	±0.20			
50mm-120mm	±0.20	VERSION:		
ABOVE 120mm	±0.25			
CENTER	±0.10	DRAWING:	FINISH:	
ANGLER	±0.50°			

俐元企業股份有限公司
LI YUN ENTERPRISE CO.,LTD

DESCRIPTION:

PART NO.

DWG NO.

俐元企業股份有限公司
俐誠企業股份有限公司

成品出廠檢驗表

表單編號：FM-42A

客戶名稱	鈺緯科技開發股份有限公司	訂單號碼				交貨數量		
料號	3MD666FM010	品名規格	0.05t*501mm*350mm			檢驗日期		
序號	規　格	檢　驗　值					檢驗結果	
	依客戶圖面檢驗	1	2	3	4	5	OK	NG
1	0.05 T ±0.20 mm	0.14	0.16	0.13	0.15	0.14	✓	
2	501 ±0.50 mm	500.75	500.77	500.75	500.78	500.77	✓	
3	350 ±0.50 mm	349.77	349.78	349.76	349.75	349.78	✓	
4								
5								
6								
7								
8								
9								
10								

主管：　游閔智　　品管組長：黃惠珍　　品檢員：林素后

台氨貿易有限公司

MOLER CHEMICAL ENTERPRISE CO., LTD.

10-3 FL., NO. 716, CHUNG CHENG RD., CHUNG HO CITY,
TAIPEI HSIEN, TAIWAN

TEL: 886-2-82273888 Fax: 886-2-82273999

TECHNICAL DATA SHEET
Surface Protection Film

ML film type : M1 PE Protection film

Application : PC,PVC and stainless steel

Film material : Polyethylene, homopolymer, according to type without addition of reclaim

Adhesion : 20±10 gram/in

Adhesive : Acrylic

Color : Natural transparent

Film thickness : 0.050mm average value +/-5% of the debit value

Film Width : 1220mm +/-5%mm,measured on the outer side of the roll

Linear reel Length : 200m/reel +/-5% 500m/reel +/-5%

Inner core diameter: 76mm

Other : Furthermore, our technical terms of delivery apply.

Storage and shelf life: (a) 20℃-25℃
(b) store in cool and dry conditions.
(c) within six months

安全資料表

91/155/EWG

2022 年 10 月

可撕除壓克力膠保護貼安全資料表

1. 產品資訊

- 名稱　保護膜
- 製造商　台氨貿易有限公司
  地址　新北市中和區中正路 716 號 10F 之 3
- 緊急連絡電話　Tel: 02-8227-3888
  Fax: 02-8227-3999

2. 危害因素

- 本產品在正常存放及一般使用方式之下不會造成危害
- 對人體及環境不會造成影響

  其他資訊：

  本品不含有機粘合鹵素(AOX)、硝酸鹽、重金屬(總含量在 100ppm 以下)及甲醛。

3. 成分

- 化學性質：
- 配方：　基材：　聚乙烯(93%)　(CAS.NO. 9002-88-4)
  粘著劑：　壓克力膠(5%)和碳氫化合物樹脂(2%)
  (CAS.NO. 35239-19-1)
- 危險物質：　無
- 其他資訊：　不需要

4. 基本急救方式

- 吸入　無
- 皮膚　皮膚若因溶化的原料而燙傷，則須醫療救治。
- 眼睛　無
- 口腔　無

5. 滅火方式

- 以水、二氧化碳或乾粉滅火。
- 產品起火： 若產品起火，可以少量一氧化碳撲滅。
- 保護裝置： 不需要

6. 意外排除方法

- 環境保護方法： 不需要
- 溢出： 不需要

7. 儲存及使用

- 使用： 無特別方法
- 儲存： 無特別方法

8. 接觸控制 / 個人安全

- 使用控制： 無特別指示
- 安全裝置： 不需要

9. 物理及化學性質

- 型態： 固態
- 氣味： 接近無味
- 熔點： 約 100-130 度 C
- 沸點： 無
- UEG 無
- OEG 無
- 密度 (20 度 C 下)約 1g/cm3
- 溶解度 無
- 黏質 無

10. 持久度及反應性

- 持久度：　　此產品化學上來說是持久的。
- 相斥物質：　　避免強氧化劑。
- 危險排除產品：　　氧化產品，包括少量的一氧化碳。

11. 毒物資料

- 劇烈毒性：　　無
- 慢性毒性：　　無
- 人體實驗：　　不會造成過敏

12. 生態學資訊

WGK 分類：　　未知；WGK 0 (自我分類)

13. 廢棄物處理

- 處理方式： 較小量的一般報廢可存放在一起，聯繫當地環境衛生處處理，大量則須回收。
- 報廢數字　　57/128 (polyolefine waste)

14. 運送資訊

- 特別預防措施：　　本產品在國家及國際上根據 ADR、RID、IMDG、ICAO/IATA 不被認定為危險物質。

15. 管理資訊

- 標籤註記：　　無
- 危險警語：　　無
- 安全警語：　　無

16. 其他

本資料以現今知識及經驗為基礎。
本安全資料表是鑑於安全規章而闡述。
本表僅供參考。

測試報告
Test Report

號碼(No.): ETR23103750　　日期(Date): 18-Jan-2023　　

台氨貿易有限公司 (MOLER CHEMICAL ENTERPRISE CO., LTD.)
新北市中和區中正路716號10樓之3 (10-3FL., NO. 716, CHUNG CHENG RD., ZHONGHE DISTRICT, NEW TAIPEI CITY, 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 the applicant as)：

送樣廠商(Sample Submitted By)	:	台氨貿易有限公司 (MOLER CHEMICAL ENTERPRISE CO., LTD.)
樣品名稱(Sample Name)	:	保護膜
樣品型號(Style/Item No.)	:	請參考第2頁 (PLEASE REFER TO PAGE 2)

==========

收件日(Sample Receiving Date)	:	11-Jan-2023
測試期間(Testing Period)	:	11-Jan-2023 to 18-Jan-2023

測試需求(Test Requested) :
(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

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

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

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

CHECK REPORT
PIN CODE: CB1F14A9

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測試報告
Test Report

台氨貿易有限公司 (MOLER CHEMICAL ENTERPRISE CO., LTD.)
新北市中和區中正路716號10樓之3 (10-3FL., NO. 716, CHUNG CHENG RD., ZHONGHE DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.)

樣品型號(Style/Item No.) :

M1 M2 M3 M3-1 M3-15 M3-M M3-L M3-30g M3L-8 M3D0 M3EP M4 M4-15 M42A M4R05
M5 M5-1 M5-15 M52G M5D2 M5R10 M6 M6F M6-H-8 M6-H M63A M6D3 M6-15 M6R1V
M7 M7F M7-15 M7-15-1 M7-1 M7-2 M7D4 M7B4 M8 M8F M8-1 M8-15 M8B5 M8D5 M8D5L
M8D5-15 M9 M9-1 M9F M9-15 M9D6 M9D6-15 M10 M10-1 M10F M10-15 M10-8 M11
M11-1 M11-8 M12 M12-1 M12-8 M13-1 M1-5g M1-10g M1-20g M1-5g-1 M1-10g-1
M1-20g-1 M1-20g-8 M0-173 M0-175 M0-275 M0-675 M0-PP M0-EVA M0EVA-5
M0EVA-5-8 M0EVA-8 M1-MATT M1-MATT-5g-1 M1-MATT-20g-1 M1-MATT-30g
M1-MATT-40g 5020保護膜 AM1 AM2 AM3 AM5 AM1-MATT-5G-1 AM1-MATT-20g-1
MP1 MP2 MP2-12 MP2-16 MP3 MP4 MP5 MP7 6221 M100

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測試部位敘述 (Test Part Description)

No.1 : 透明塑膠膜 (TRANSPARENT PLASTIC FILM)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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新北市中和區中正路716號10樓之3 (10-3FL., NO. 716, CHUNG CHENG RD., ZHONGHE DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000

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測試報告
Test Report

台氨貿易有限公司 (MOLER CHEMICAL ENTERPRISE CO., LTD.)
新北市中和區中正路716號10樓之3 (10-3FL., NO. 716, CHUNG CHENG RD., ZHONGHE DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008，以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	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.)	mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)	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.)	mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	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.)	mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	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.)	mg/kg	50	n.d.	-
多氯聯苯 (PCBs) (Polychlorinated biphenyls (PCBs))	參考US EPA 3550C: 2007，以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	0.5	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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測試報告
Test Report

台氨貿易有限公司 (MOLER CHEMICAL ENTERPRISE CO., LTD.)
新北市中和區中正路716號10樓之3 (10-3FL., NO. 716, CHUNG CHENG RD., ZHONGHE DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996，以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3052: 1996，以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
四溴雙酚-A (TBBP-A) (Tetrabromobisphenol A (TBBP-A)) (CAS No.: 79-94-7)	參考RSTS-E&E-121，以液相層析儀/質譜儀分析。(With reference to RSTS-E&E-121, analysis was performed by LC/MS.)	mg/kg	10	n.d.	-
中鏈氯化石蠟(C14-C17) (MCCP) (Medium Chain Chlorinated Paraffins(C14-C17) (MCCP)) (CAS No.: 85535-85-9)	參考ISO 18219-2: 2021，以氣相層析儀/質譜儀分析。(With reference to ISO 18219-2: 2021, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-

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備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
   CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
   CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
7. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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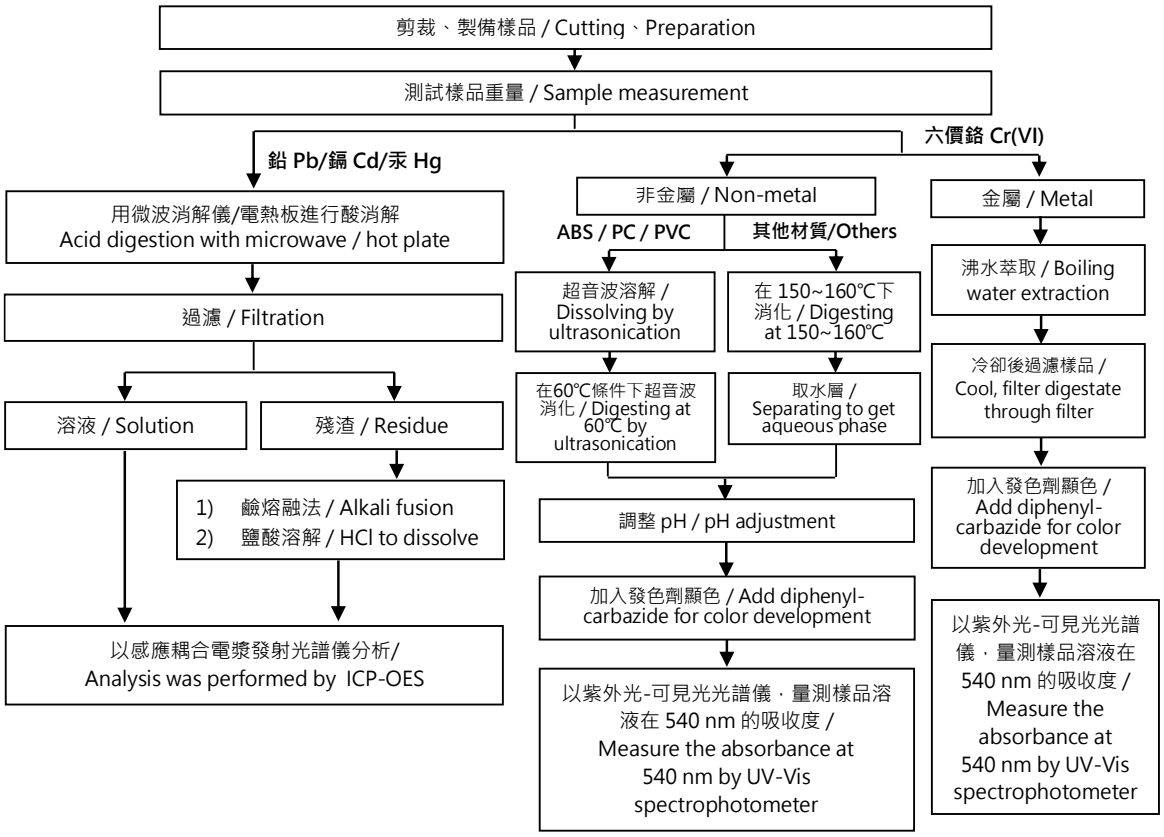
重金屬流程圖 / Analytical flow chart of heavy metal

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^{6+} test method excluded）



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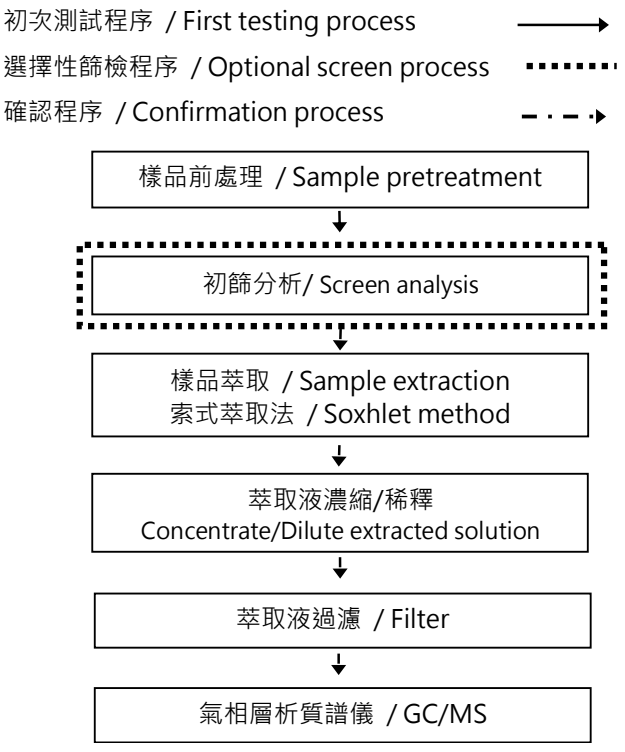
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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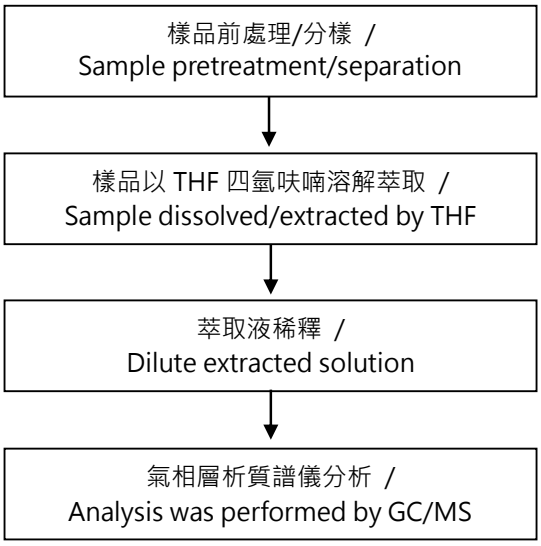
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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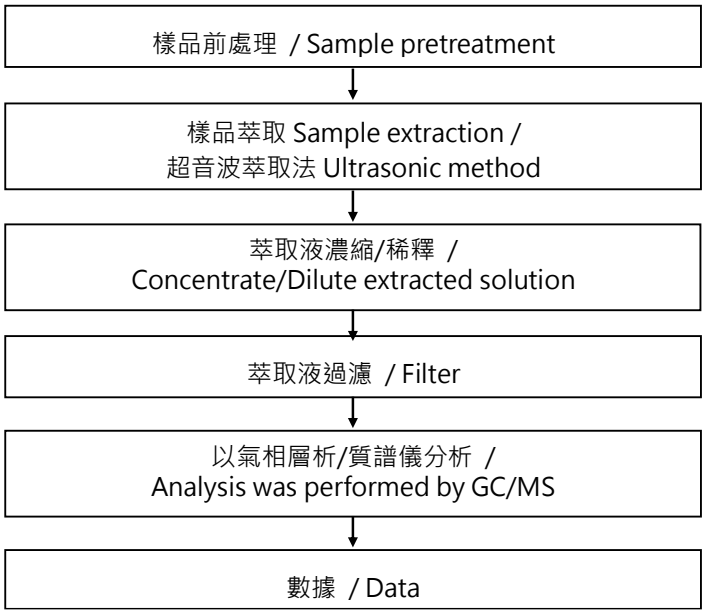
六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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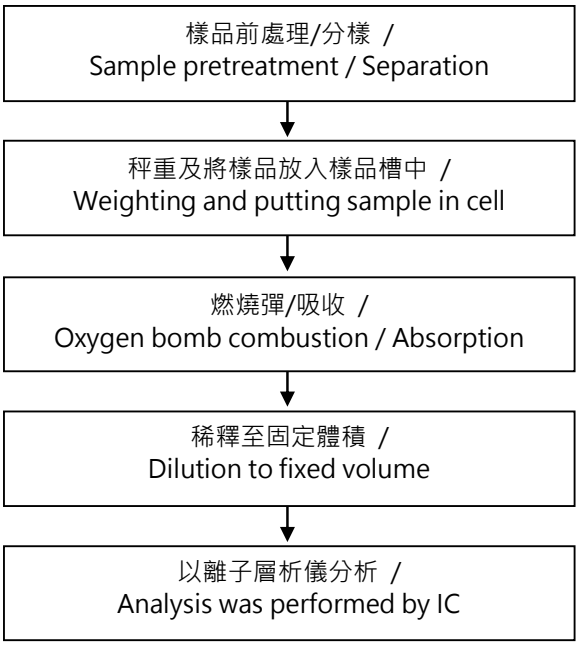
鹵素分析流程圖 / Analytical flow chart - Halogen



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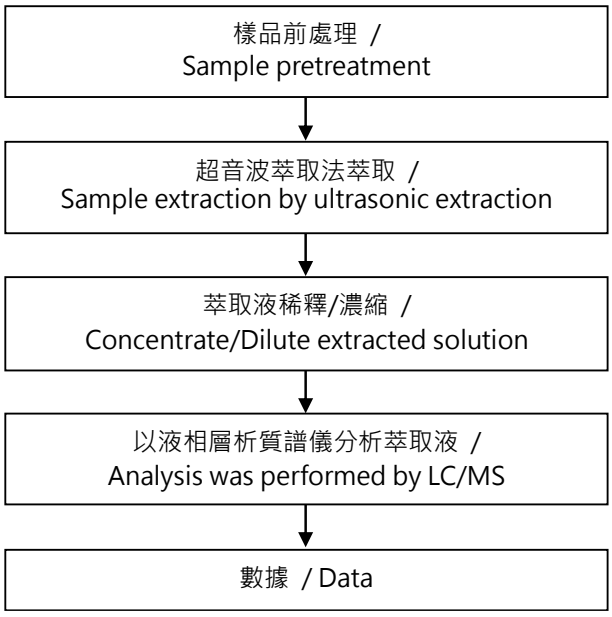
四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A



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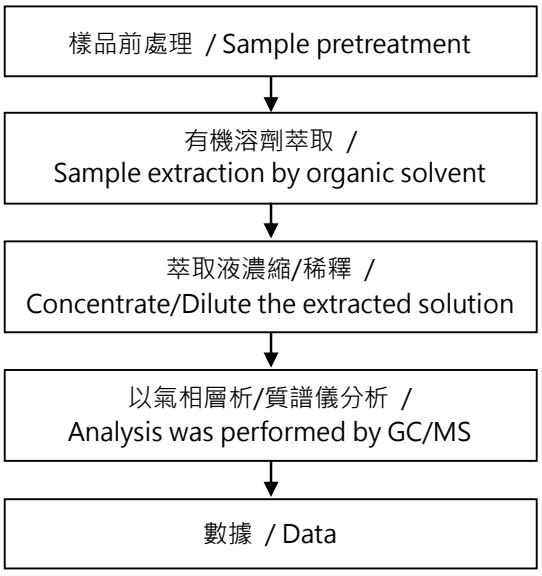
分析流程圖 / Analytical flow chart

【適用於：多氯聯苯、多氯奈、多氯三聯苯、滅蟻靈、氯化石蠟、DBBT】

*Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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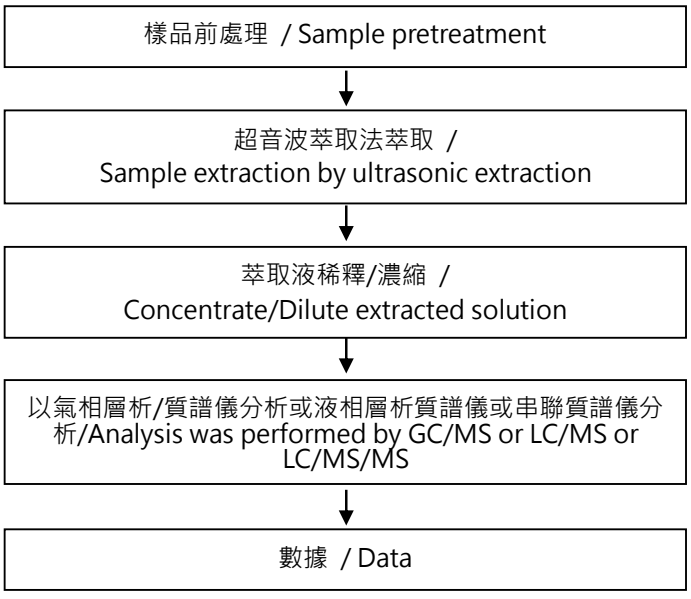
全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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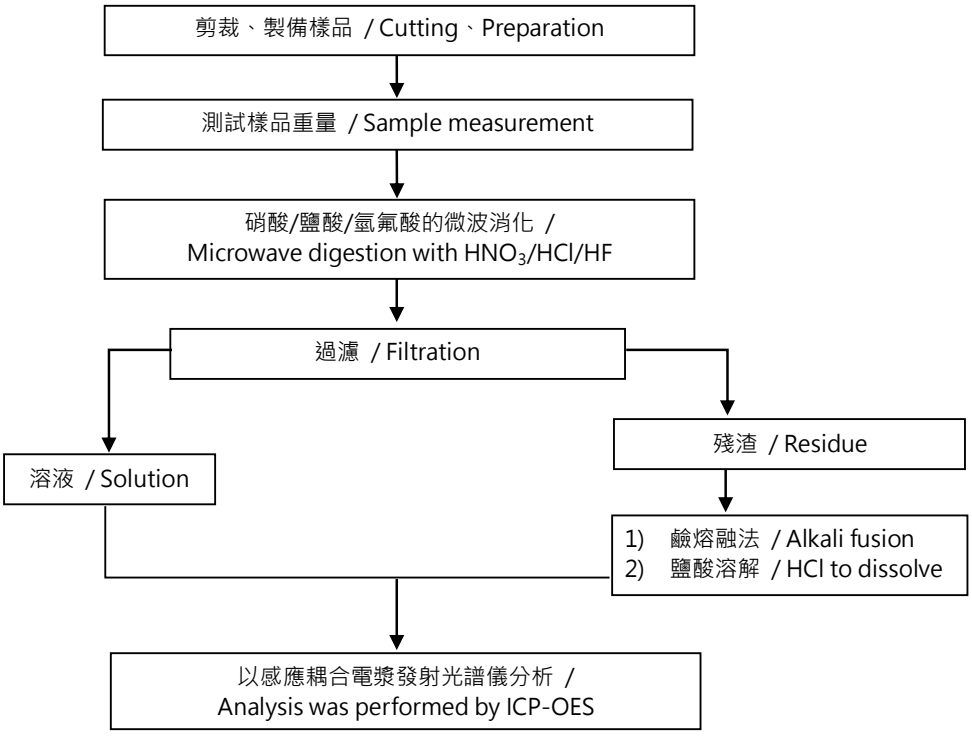
元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

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.
【參考方法/Reference method：US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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測試報告
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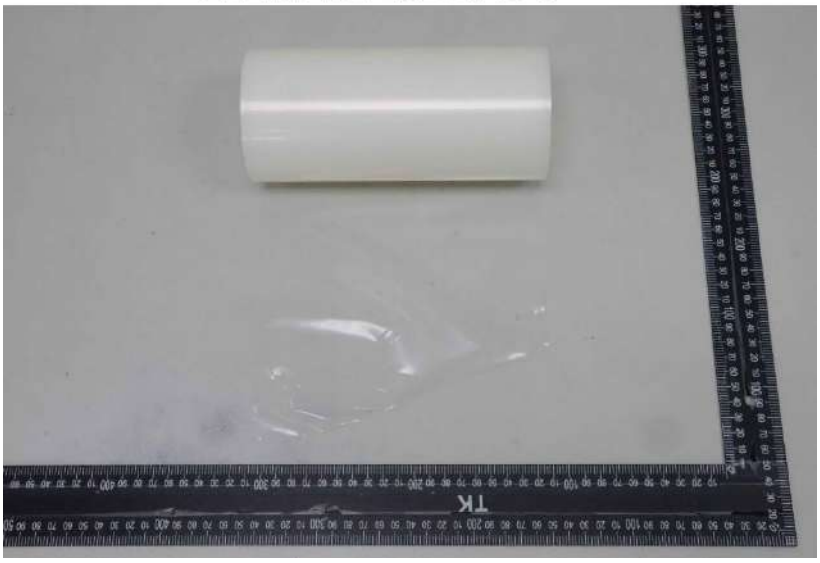
*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23103750



** 報告結尾 (End of Report) **

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