

## Test Report

號碼(No.): ETR23902088

日期(Date): 20-Sep-2023

頁數(Page):1 of 12

陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.)

雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

以下測試樣品係由申請廠商所提 applicant as):	供及確認	(The following sample(s) was/were submitted and identified by the
送樣廠商(Sample Submitted B 樣品名稱(Sample Name)	•	陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.) ZIPPER BAG (夾鏈袋) 
收件日(Sample Receiving Date 測試期間(Testing Period)		13-Sep-2023 13-Sep-2023 to 20-Sep-2023
測試需求(Test Requested)	: (1)	依據客戶指定‧參考 94/62/EC 指令測試鎘、鉛、汞、六價鉻含量。 (As specified by client, with reference to Directive 94/62/EC to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample(s).) 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) 結  論(Conclusion)	: (1)	請參閱下一頁 (Please refer to following pages.)

Troy Chang / Department Malager Signed for and on behalf





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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



## Test Report

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### 測試部位敘述 (Test Part Description)

No.1 : 透明塑膠袋及其上印刷 (TRANSPARENT PLASTIC BAG WITH PAINTED)

### 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.	-
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.	-
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.	-
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.	-
鎘,鉛,汞,六價鉻加總 (Sum of Cadmium, Lead, Mercury, Cr(VI))	-	mg/kg	_	n.d.	100

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雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
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)	參考IEC 62321-6: 2015 · 以氣相層析儀/質	mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)	譜儀分析。(With reference to IEC 62321-	mg/kg	-	n.d.	-
一溴聯苯醚 (Monobromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)	GC/MS.)	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.	-
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	-
phthalate (BBP))					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017,以氣相層析儀/質	mg/kg	50	n.d.	-
phthalate (DBP))	譜儀分析。(With reference to IEC 62321-				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
(2-ethylhexyl) phthalate (DEHP)) 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.	_
phthalate (DIBP))		iiig/ kg	50	11.0.	

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陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.)

雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-		mg/kg	50	n.d.	-
8)					
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	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.	-
15-1)					
溴 (Br) (Bromine (Br)) (CAS No.: 10097-		mg/kg	50	n.d.	-
32-2)	2010, analysis was performed by IC.)				
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.	-
salts) (CAS No.: 1763-23-1 and its salts)	聯質譜儀分析。(With reference to				
全氟辛酸及其鹽類 (PFOA and its salts)	CEN/TS 15968: 2010, analysis was	mg/kg	0.01	n.d.	-
(CAS No.: 335-67-1 and its salts)	performed by LC/MS/MS.)				

### 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. 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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CAS No.

陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.)

雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

### **PFAS Remark :**

現有PFAS定量技術是分析PFAS物質的特定結構,但同碳數族群之PFAS酸及鹽類物質,其可被辨識的特定結構相同,因此無法區別 所分析的特定結構是來自酸或者鹽類,故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含 在測試結果中,相關資訊請參見下表:(下表列舉PFAS物質僅為範例,並不包含所有同碳數族群之PFAS鹽類。) (The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon

物質名稱

relevant information: (The listed PFAS number group.))	substance
物質濃度分類 (Classification of Substance Concentration)	

(Classification of Substance Concentration)	(Substance Name)	
全氟辛烷磺酸及其鹽類 Perfluorooctane sulfonates and its	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt (PFOS- NH(OH) <sub>2</sub> )	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane- 1-sulfonate (PFOS-DDA)	251099-16-8
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS- Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0

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雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟辛酸及其鹽類 Perfluorooctanoic acid and its salts	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5

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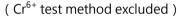
陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.)

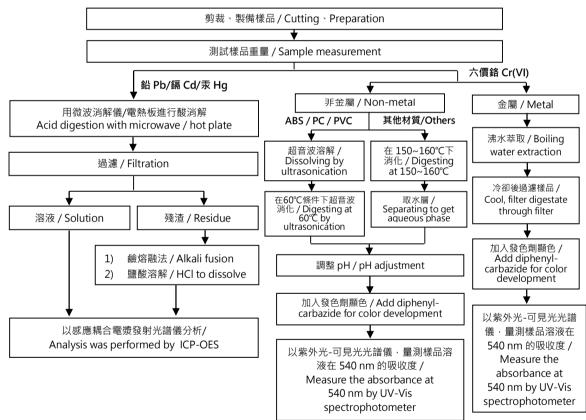
雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

#### 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.





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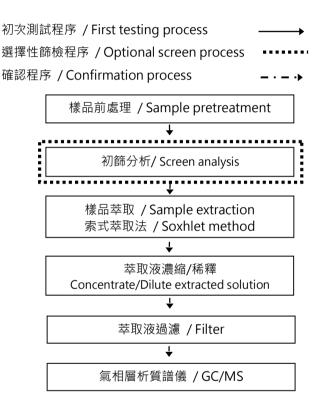
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陳新塑膠股份有限公司 (CHENG HSIN PLASTIC CO., LTD.)

雲林縣莿桐鄉麻園村埤寮13號 (NO. 13, PEIL LIAO, MA YUAN TSUN, TSYH TORNG HSIANG YUNLIN HSIEN, TAIWAN)

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



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號碼(No.): ETR23902088

日期(Date): 20-Sep-2023

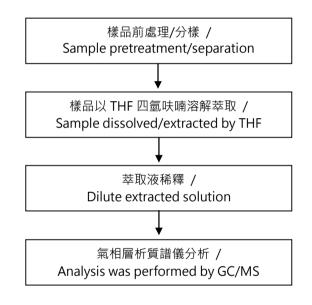
頁數(Page): 9 of 12

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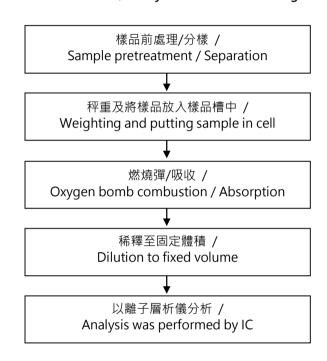
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鹵素分析流程圖 / Analytical flow chart - Halogen



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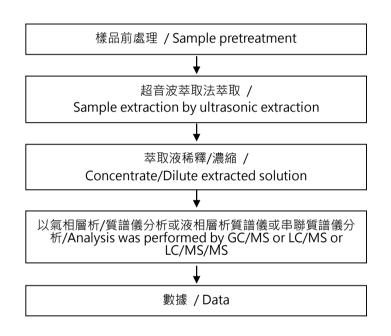
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## 全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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\*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.)



\*\* 報告結尾 (End of Report) \*\*

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