

測試報告 Test Report

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

頁數(PAGE): 1 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346
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) : 集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

樣品名稱(Sample Description) : LD-01 260MM TRITAN BIG ROUND PLATE (LD-01餐盤-260MM-TRITAN大圓盤)

樣品型號(Style/Item No.) : LD-01

樣品材質(Sample Material) : TRITAN

原產國(Country Of Origin) : TAIWAN

收件日(Sample Receiving Date) : 2023/11/23

測試期間(Testing Period) : 2023/11/23 to 2023/12/04 and 2023/12/06 to 2023/12/08

測試需求 (Test Requested)

依據客戶指定，參考Regulation (EU) No 10/2011及其修訂條文、Regulation (EC) No 1935/2004 第3條進行測試。
測試項目請參閱測試結果表格。(As specified by client, the sample(s) was/were tested with reference to Regulation (EU) No 10/2011 with amendments and hence Article 3 of Regulation (EC) No 1935/2004. Please refer to the result table for testing item(s).)

測試結果 (Test Results)

: 請見下一頁。(Please refer to next page(s).)

* 此份報告為加測及合併HTF23B00736之報告 *

(This is an additional and combined test report for HTF23B00736.)


Singh Hsiao / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

頁數(PAGE): 2 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346
TAIWAN)

測試部位敘述(Test Part Description)

No.1 : 半透明塑膠 (TRANSLUCENT PLASTIC)

測試結果(Test Results)

通過(PASS)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1			限值 (Limit)
				1st	2nd	3rd	
總遷移量 (10% 乙醇, 70°C, 2小時) / Overall Migration (10% ethanol, 70°C, 2 h)	參考 EN 1186: 2022. / With reference to EN 1186: 2022.	mg/dm ²	3	n.d.	n.d.	n.d.	10 (■1)
總遷移量 (3% 醋酸, 70°C, 2小時) / Overall Migration (3% acetic acid, 70°C, 2 h)		mg/dm ²	3	n.d.	n.d.	n.d.	10 (■1)
總遷移量表面積與體積之比 / The ratio of surface area to volume for overall migration		dm ² /kg	-	9.95			-
總遷移量 (油脂類食物替代: 95% 乙醇, 60°C, 2小時) / Overall Migration (fatty food substitute: 95% ethanol, 60°C, 2 h)	參考 EN 1186: 2022. / With reference to EN 1186: 2022.	mg/dm ²	3	n.d.	n.d.	n.d.	10 (■1)
總遷移量 (油脂類食物替代: 異辛烷, 40°C, 0.5小時) / Overall Migration (fatty food substitute: isooctane, 40°C, 0.5 h)		mg/dm ²	3	n.d.	n.d.	n.d.	10 (■1)
總遷移量表面積與體積之比 / The ratio of surface area to volume for overall migration		dm ² /kg	-	9.26			-
雙酚 A 特定遷移 / Specific Migration of Bisphenol A	參考 EN 13130-1: 2004, 以液相層析串聯式質譜儀分析。 (3% 醋酸, 70°C, 2 小時) / With reference to EN 13130-1: 2004. Analysis was performed by LC/MS/MS. (3% acetic acid, 70°C, 2 h)	mg/kg	0.01	n.d.	n.d.	n.d.	0.05 (■1)

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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

頁數(PAGE): 3 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346 TAIWAN)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1			限值 (Limit)
				1st	2nd	3rd	
重金屬特定遷移 / Specific Migration of Heavy Metals							
鉻 / Chromium (Cr)	參考 EN 13130-1: 2004, 以感應耦合電漿質譜儀分析。(3%醋酸, 70°C, 2 小時) / With reference to EN 13130-1: 2004. Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 2 h)	mg/kg	0.01	n.d.	n.d.	n.d.	n.d. (■3)
砷 / Arsenic (As)		mg/kg	0.01	n.d.	n.d.	n.d.	n.d. (■3)
鎘 / Cadmium (Cd)		mg/kg	0.002	n.d.	n.d.	n.d.	n.d. (■3)
汞 / Mercury (Hg)		mg/kg	0.01	n.d.	n.d.	n.d.	n.d. (■3)
鉛 / Lead (Pb)		mg/kg	0.01	n.d.	n.d.	n.d.	n.d. (■3)
鋰 / Lithium (Li)		mg/kg	0.1	n.d.	n.d.	n.d.	0.6 (■1)
鋁 / Aluminum (Al)		mg/kg	0.1	n.d.	n.d.	n.d.	1 (■1)
錳 / Manganese (Mn)		mg/kg	0.1	n.d.	n.d.	n.d.	0.6 (■1)
鐵 / Iron (Fe)		mg/kg	5	n.d.	n.d.	n.d.	48 (■1)
鈷 / Cobalt (Co)		mg/kg	0.01	n.d.	n.d.	n.d.	0.05 (■1)
鎳 / Nickel (Ni)		mg/kg	0.01	n.d.	n.d.	n.d.	0.02 (■1)
銅 / Copper (Cu)		mg/kg	0.25	n.d.	n.d.	n.d.	5 (■1)
鋅 / Zinc (Zn)	mg/kg	0.5	n.d.	n.d.	n.d.	5 (■1)	
鋇 / Barium (Ba)	mg/kg	0.25	n.d.	n.d.	n.d.	1 (■1)	
銻 / Antimony (Sb)	mg/kg	0.01	n.d.	n.d.	n.d.	0.04 (■1)	

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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

頁數(PAGE): 4 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346 TAIWAN)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1			限值 (Limit)
				1st	2nd	3rd	
鐳 / Lanthanum (La)	參考 EN 13130-1: 2004, 以感應耦合電漿質譜儀分析。(3% 醋酸, 70°C, 2 小時) / With reference to EN 13130-1: 2004. Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 2 h)	mg/kg	0.025	n.d.	n.d.	n.d.	0.05 (Gd+Eu+La+Tb Total) (■1)
鎔 / Europium (Eu)		mg/kg	0.025	n.d.	n.d.	n.d.	
釓 / Gadolinium (Gd)		mg/kg	0.025	n.d.	n.d.	n.d.	
鐿 / Terbium (Tb)		mg/kg	0.025	n.d.	n.d.	n.d.	
鄰苯二甲酸酯特定遷移 / Specific Migration of Phthalates							
鄰苯二甲酸二 (2-乙基己基) 酯 (Di- (2-ethylhexyl) phthalate) (DEHP) (CAS No.: 117-81-7)	參考 EN 13130-1: 2004, 以液相層析串聯式質譜儀分析。(3% 醋酸, 70°C, 2 小時) / With reference to EN 13130-1: 2004. Analysis was performed by LC/MS/MS. (3% acetic acid, 70°C, 2 h)	mg/kg	0.1	n.d.	n.d.	n.d.	0.6 (■1)
鄰苯二甲酸二丁酯 (Dibutyl phthalate) (DBP) (CAS No.: 84-74-2)		mg/kg	0.05	n.d.	n.d.	n.d.	0.12 (■1)
鄰苯二甲酸丁苯甲酯 (Butyl Benzyl phthalate) (BBP) (CAS No.: 85-68-7)		mg/kg	0.1	n.d.	n.d.	n.d.	6 (■1)
鄰苯二甲酸二烯丙酯 (Diallyl phthalate) (DAP) (CAS No.: 131-17-9)		mg/kg	0.01	n.d.	n.d.	n.d.	n.d. (■3)
鄰苯二甲酸二異癸酯 (Di-isodecyl phthalate) (DIDP) (CAS No.: 26761-40-0; 68515-49-1)		mg/kg	0.5	n.d.	n.d.	n.d.	-
鄰苯二甲酸二異壬酯 (Di-isononyl phthalate) (DINP) (CAS No.: 28553-12-0; 68515-48-0)		mg/kg	0.5	n.d.	n.d.	n.d.	-
鄰苯二甲酸二異丁酯 (DIBP) / Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	0.05	n.d.	n.d.	n.d.	-
DIBP, DBP, BBP 與 DEHP之計算總和 / Calculated Sum of DIBP, DBP, BBP and DEHP (■3)		mg/kg	-	n.d.	n.d.	n.d.	0.6 (■1)
DINP 與 DIDP之總和 / Sum of DINP and DIDP		mg/kg	-	n.d.	n.d.	n.d.	1.8 (■1)
特定遷移量表面積與體積之比 / The ratio of surface area to volume for specific migration	dm²/kg	-	6.00			-	
穩定性 (Stability)				符合 (Compliant)			-

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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

頁數(PAGE): 5 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346 TAIWAN)

Remark :

- 穩定趨勢是依照2011年1月14日歐盟委員會法規 (EU) No 10/2011 之附錄五所描述之重複使用樣品從第一次至第三次的遷移結果。 (Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.)
- 符合性是以穩定趨勢及第三次遷移結果判定。 (The compliance is based on the stability trend and 3rd migration result.)
- (■1) 限值是依據Commission Regulation 2011年1月14日 (EU) No 10/2011及其修訂案。 / Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- (■3) 依據Commission Regulation 2011年1月14日 (EU) No 10/2011及其修訂案，該測試項目為不得檢出，其第一次遷移結果應小於RL。 / According to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, the test item(s) is/are prohibited from migrating in detectable quantities, and the first migration shall be less than RL.
- (#3) 以公式 $DBP*5 + DIBP*4 + BBP*0.1 + DEHP*1$ 計算總和並以 DEHP 當量表示。 / Calculated sum expressed as DEHP equivalents using the following equation: $DBP*5 + DIBP*4 + BBP*0.1 + DEHP*1$.
- 替代試驗：客戶選擇(EU) No 10/2011遷移測試條件為OM3，依EN 1186-1及EN 13130-1要求轉換為對應之替代試驗條件。 / Substitute test: test condition of OM3 in (EU) No 10/2011 is specified by client and conventional condition for the substitute tests instead of OM3 is based on EN 1186-1 and EN 13130-1.

Test condition with simulant D2	Test condition with simulant ethanol 95%	Test condition with simulant iso-Octane
2 h at 70°C	2 h at 60°C	0.5 h at 40°C

備註(Note) :

1. mg/kg = ppm ; 0.1% = 1000 ppm
2. mg/dm² = milligram per square decimeter (毫克/每100平方公分)
3. RL = Reporting Limit (報告極限值)
4. n.d. = Not Detected (未檢出) = Less than (小於) RL
5. "-" = Not Regulated (無規格值)
6. °C = degree Celsius (攝氏溫度)
7. 測試條件及模擬液是由客戶指定。 (Test condition and simulant were specified by client.)
8. 本報告不得分離或擷錄使用。 (The report is invalid if it is partly reproduced or used.)
9. 本實驗室之報告符合性聲明依ILAC-G8:09/2019簡單允收之二分法判定規則(w=0，AL=TL)做為測試結果符合性聲明判定之判定依據。 (The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.)

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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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

報告編號(No.): HTF23B00736A01

報告日期(DATE): 2023/12/08

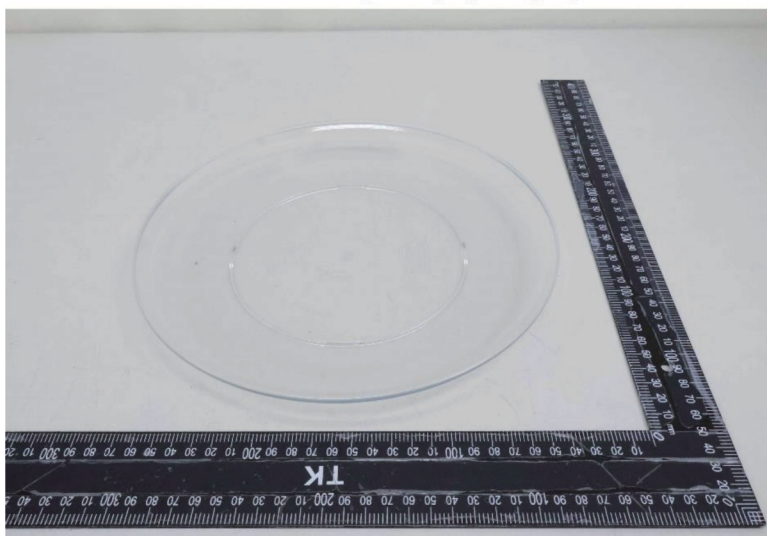
頁數(PAGE): 6 of 6

集泉塑膠工業股份有限公司 (LIVING FOUNTAIN PLASTIC INDUSTRIAL CO., LTD.)

台中市霧峰區民生路198巷31號 (NO.31, LN. 198, MINSHENG RD., WUFENG DIST., TAICHUNG CITY 41346
TAIWAN)

* 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.)

HTF23B00736

** 報告結尾 (End of Report) **

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.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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.