

測試報告  
Test Report

號碼(No.): ETF24100066

日期(Date): 29-Jan-2024

頁數(Page): 1 of 7

六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )

台北市中山區德惠街9號6樓 ( 6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 10461, 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) :

樣品名稱(Sample Description) : PLA MESH FOR TEA BAG ( 茶包用PLA紗 )  
樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片 ( PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT ) / -  
樣品保存方式(Sample Packaging) : 常溫 ( Ambient temp. )  
樣品型號(Style/Item No.) : SM3020  
樣品批號(Lot. No.) : OHK-240001  
樣品材質(Sample Material) : PLA  
送樣廠商(Sample Submitted By) : 六和化工股份有限公司 ( UNION CHEMICAL IND. CO., LTD. )  
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : -  
製造日期(Manufacturing Date) : DECEMBER, 2023  
有效日期(Expiry Date) : -  
原產國(Country of Origin) : 日本 ( JAPAN )  
生產廠商(Manufacturer) : 大紀商事株式會社 ( OHKI CO., LTD. )

=====  
收件日(Sample Receiving Date) : 18-Jan-2024  
測試期間(Testing Period) : 18-Jan-2024 to 29-Jan-2024

## 測試需求 (Test Requested) :

- (1) 依據之食品衛生法規為中華民國食品器具容器包裝衛生標準 (112.01.11衛授食字第1111303439號令修正) 。測試項目與方法請參閱測試結果表格。(According to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)
- (2) 依據客戶要求進行測試，測試項目請參閱測試結果表格。(The test was specified by client, please refer to the result table(s) for testing item(s).)

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

蕭志祥  
蕭志祥 / 副理  
化學實驗室-台北  
台灣檢驗科技股份有限公司  
報告簽署人



PIN CODE: 54DB7243

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## 測試部位敘述(Test Part Description)

No.1 : 透明紗 (TRANSPARENT MESH)  
No.2 : 透明紗 (TRANSPARENT MESH)

## 測試結果(Test Results)

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛 生法規 (Limit)
				No.1	No.2	
★鉛 / Lead (Pb)	衛生福利部107.10.04衛授食字第 1071901951號公告修正食品器具、 容器、包裝檢驗方法-聚乳酸塑膠類 之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid (PLA) Plastic Products (MOHW Food No. 1071901951 announced, October 04, 2018).	ppm	5	n.d.	---	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	---	100
★總乳酸-(水, 60°C, 30分鐘) / Total lactic acid-(water, 60°C, 30 min)		ppm	5	n.d.	---	30
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n- Heptane, 25°C, 1 hr)	衛生福利部107.10.04衛授食字第 1071901983號公告修正食品器具、 容器、包裝檢驗方法-塑膠類之檢 驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.05	n.d.	---	1.5
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84- 74-2) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	---	0.3
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小 時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	---	30
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小 時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n- Heptane, 25°C, 1 hr)		ppm	0.5	n.d.	---	9

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(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛 生法規 (Limit)
				No.1	No.2	
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food	ppm	0.5	n.d.	---	9
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)	Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	0.05	n.d.	---	18

(2)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		食品衛 生法規 (Limit)
				No.1	No.2	
高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	衛生福利部107.09.20衛授食字第1071901823號公告修正食品器具、容器、包裝檢驗方法-聚對苯二甲酸乙二酯塑膠類之檢驗。 / Methods of Test for Food Utensils,	ppm	3	---	n.d.	-
蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	ppm	3	---	6	-
重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)	註：實驗室擴充原方法適用基質，非屬衛生福利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	ppm	-	---	<1	-

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## 備註(Note) :

1. 檢驗報告僅就委託者之委託事項提供檢驗結果，不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
2. 本檢驗報告之所有檢驗內容，均依委託事項執行檢驗，如有不實，願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
3. mg/kg = ppm ; 0.1wt% = 1000 ppm
4. LOQ = 定量極限，若該測試項目屬於定量分析則以「LOQ」表示；LOD = 偵測極限，若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
5. n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
6. "-" = Not Regulated (無規格值)
7. "---" = Not Conducted (未測項目)
8. 測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)
9. 法規標準值係依據衛生福利部112年01月11日衛授食字第1111303439號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11)" , Ministry of Health and Welfare of Taiwan.)

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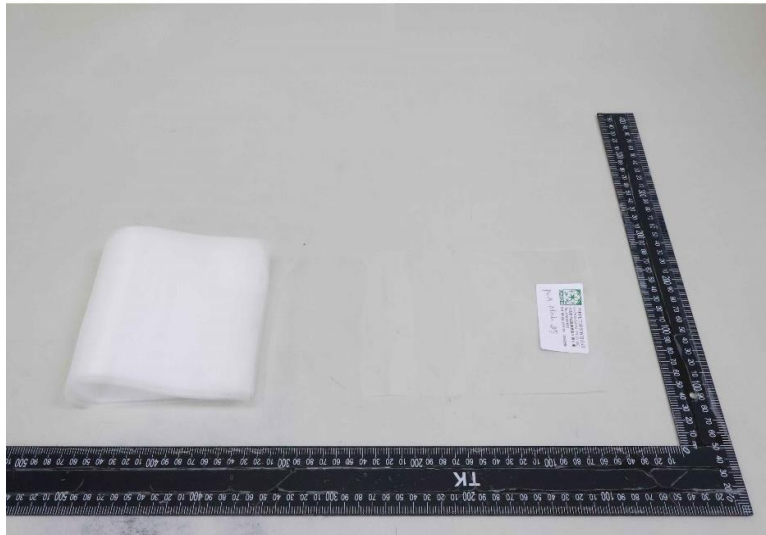
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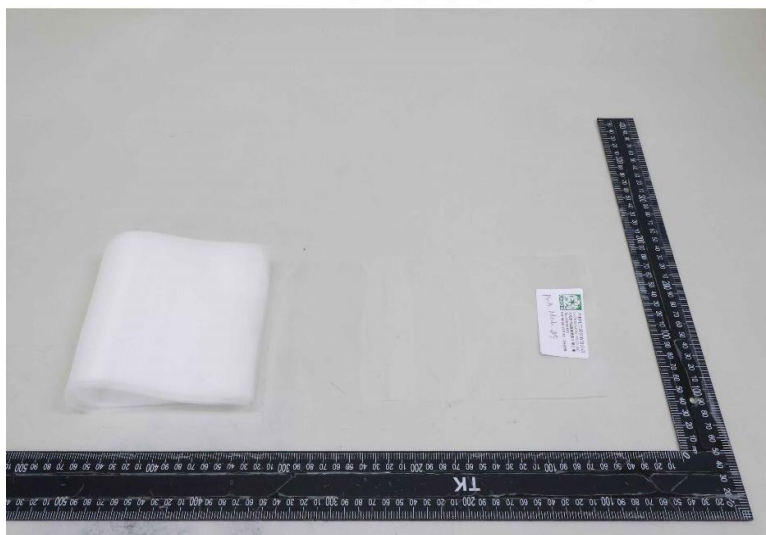
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

### ETF24100066 NO.1



### ETF24100066 NO.2



**\*\* 報告結尾 (End of Report) \*\***

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

( The information requested from client is shown as below : )

ETF24100066

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	衛生福利部107.10.04衛授食字第1071901951號公告修正食品器具、容器、包裝檢驗方法-聚乳酸塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polylactic Acid (PLA) Plastic Products (MOHW Food No. 1071901951 announced, October 04, 2018).	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
★鎘 / Cadmium (Cd)		
★總乳酸-(水, 60°C, 30分鐘) / Total lactic acid-(water, 60°C, 30 min)		
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

( The information requested from client is shown as below : )

ETF24100066

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption- (water, 95°C, 30 min)	衛生福利部107.09.20衛授食字第 1071901823號公告修正食品器具、容器、包 裝檢驗方法-聚對苯二甲酸乙二酯塑膠類之檢 驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene Terephthalate (PET) Plastic Products (MOHW Food No. 1071901823 announced, September 20, 2018).	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	註：實驗室擴充原方法適用基質，非屬衛生福 利部該項認證範圍。 / Remark: The test method was applied to the material out of the scope from MOHW accreditation.	
重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		

測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)