

## 測試報告 Test Report

號碼(No.): ETF21100073

日期(Date): 28-Jan-2021

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 104, 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) : PP YARN FOR COFFEE BAG AND TEA BAG ( 茶包&咖啡包用PP線 )  
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.) : PP246  
樣品批號(Lot. No.) : OHK-210001  
樣品材質(Sample Material) : PP  
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/連絡人(Company Add/Tel/Contact Person) : -  
製造日期(Manufacturing Date) : DECEMBER, 2020  
有效日期(Expiry Date) : -  
生產廠商(Manufacturer) : 大紀商事株式會社 ( OHKI CO., LTD. )  
原產國(Country Of Origin) : 日本 ( JAPAN )

=====  
收件日(Sample Receiving Date) : 19-Jan-2021  
測試期間(Testing Period) : 19-Jan-2021 to 28-Jan-2021

### 測試需求 (Test Requested) :

依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (102.08.20部授食字第1021350146號令修正)進行測試。測試項目請參閱測試結果表格。(As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146, amended on 2013/08/20) to conduct test. 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



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## 測試部位敘述(Test Part Description)

No.1 : 白色線 (WHITE YARN)

## 測試結果(Test Results)

| 測試項目<br>(Test Item(s))  | 測試方法<br>(Method)   | 單位<br>(Unit) | LOQ/<br>LOD | 結果<br>(Result) | 食品衛生<br>法規<br>(Limit) |
|---|--|--------------|-------------|----------------|-----------------------|
|   |  |              |             | No.1           |                       |
| ★鉛 / Lead (Pb)  | 食品器具、容器、包裝檢驗方法-聚丙<br>烯(PP)塑膠類之檢驗 (107年9月17日<br>衛授食字第1071901787號公告) · 以<br>感應耦合電漿放射光譜儀分析。/<br>With reference to Methods of Test<br>for Food Utensils, Containers and<br>Packages - Test of Polypropylene<br>(PP) Plastic Products (MOHW Food<br>No. 1071901787 announced,<br>September 17, 2018), analysis was<br>performed by ICP-OES. | ppm          | 5           | n.d.           | 100                   |
| ★鎘 / Cadmium (Cd)   |  | ppm          | 0.5         | n.d.           | 100                   |
| ★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-<br>(2-ethylhexyl) phthalate) (CAS No.: 117-<br>81-7) | CNS 15138-1 (民國101年) · 以氣相<br>層析質譜儀分析。/ With reference<br>to CNS 15138-1 (2012), analysis<br>was performed by GC/MS.   | %            | 0.003       | n.d.           | 0.1                   |
| ★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl<br>phthalate) (CAS No.: 84-74-2)                      |  | %            | 0.003       | n.d.           | 0.1                   |
| ★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl<br>phthalate) (CAS No.: 85-68-7)                   |  | %            | 0.003       | n.d.           | 0.1                   |
| ★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl<br>phthalate) (CAS No.: 26761-40-0; 68515-<br>49-1) |  | %            | 0.01        | n.d.           | 0.1                   |
| ★鄰苯二甲酸二異壬酯 / DINP (Diisononyl<br>phthalate) (CAS No.: 28553-12-0; 68515-<br>48-0) |  | %            | 0.01        | n.d.           | 0.1                   |
| ★鄰苯二甲酸二甲酯 / DMP (Dimethyl<br>phthalate) (CAS No.: 131-11-3)                       |  | %            | 0.003       | n.d.           | 0.1                   |

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台北市中山區德惠街9號6樓 (6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN)

| 測試項目<br>(Test Item(s))  | 測試方法<br>(Method)   | 單位<br>(Unit) | LOQ/<br>LOD | 結果<br>(Result) | 食品衛生<br>法規<br>(Limit) |
|---|--|--------------|-------------|----------------|-----------------------|
|   |  |              |             | No.1           |                       |
| ★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)  | CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.  | %            | 0.003       | n.d.           | 0.1                   |
| ★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)  |  | %            | 0.003       | n.d.           | 0.1                   |
| ★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)                                 | 食品器具、容器、包裝檢驗方法-聚丙稀(PP)塑膠類之檢驗 (107年9月17日衛授食字第1071901787號公告) · / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018).          | ppm          | 3           | n.d.           | 10                    |
| ★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)                                   |  | ppm          | -           | <1             | 1                     |
| ★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)   |  | ppm          | 3           | 6              | 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)  | 食品器具、容器、包裝檢驗方法-塑膠類之檢驗 (107年10月4日衛授食字第1071901983號公告) · 以氣相層析質譜儀分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS. | 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                     |
| ★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) |  | 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)        |  | ppm          | 0.05        | n.d.           | 18                    |

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台北市中山區德惠街9號6樓 (6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN)

## 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. 測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MOHW.)
8. 法規標準值係依據衛生福利部食品藥物管理署102年08月20日部授食字第1021350146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 (amended on 2013/08/20)", Taiwan Food and Drug Administration, Ministry of Health and Welfare.)

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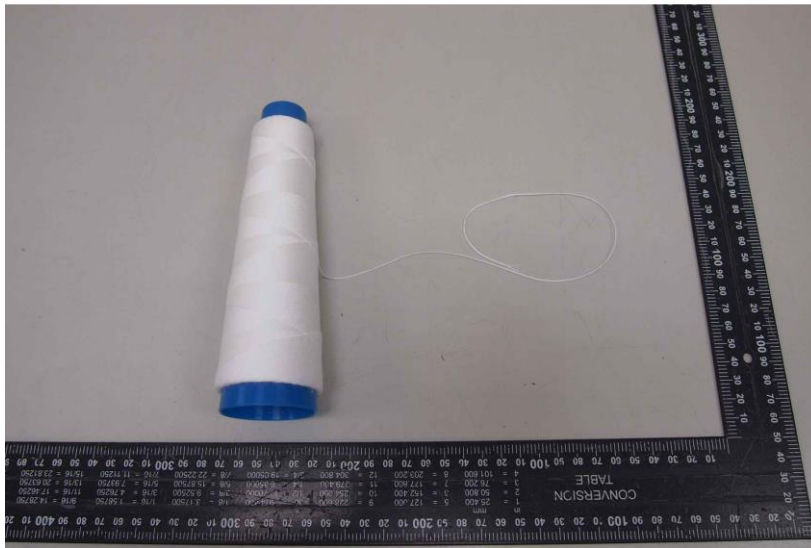
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

### ETF21100073



\*\* 報告結尾 (End of Report) \*\*

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台北市中山區德惠街9號6樓 (6TH FL., NO. 9, DE-HUI STREET, JHONG-SHAN DISTRICT, TAIPEI 104, TAIWAN)

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 : )  
ETF21100073

| 測試項目<br>(Test Items)   | 測試方法<br>(Method)   | LOQ/LOD  |
|--|--|--|
| ★鉛 / Lead (Pb)   | 食品器具、容器、包裝檢驗方法-聚丙稀(PP)塑膠類之檢驗 (107年9月17日衛授食字第1071901787號公告) · 以感應耦合電漿放射光譜儀分析。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 announced, September 17, 2018), analysis was performed by ICP-OES. | 詳見測試結果之定量/偵測極限。(Please refer to the result table above.) |
| ★鎘 / Cadmium (Cd)  |  |  |
| ★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)  | CNS 15138-1 (民國101年) · 以氣相層析質譜儀分析。 / With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.  |  |
| ★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)                  |  |  |
| ★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)               |  |  |
| ★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) |  |  |
| ★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) |  |  |
| ★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)                   |  |  |
| ★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)               |  |  |
| ★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)                     |  |  |

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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 : )

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| 測試項目<br>(Test Items)   | 測試方法<br>(Method)   | LOQ/LOD   |
|--|--|---|
| ★高錳酸鉀消耗量-(水, 95°C, 30分鐘) /<br>Potassium permanganate consumption-<br>(water, 95°C, 30 min)                                   | 食品器具、容器、包裝檢驗方法-聚丙稀(PP)塑<br>膠類之檢驗 (107年9月17日衛授食字第<br>1071901787號公告) 。 / With reference to<br>Methods of Test for Food Utensils,<br>Containers and Packages - Test of<br>Polypropylene (PP) Plastic Products (MOHW<br>Food No. 1071901787 announced,<br>September 17, 2018).         | 詳見測試結果之定量/偵測<br>極限。(Please refer to the<br>result table above.) |
| ★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) /<br>Heavy metal (as Pb)-(4% acetic acid, 95°C,<br>30 min)                                      |  |   |
| ★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation<br>residue-(water, 95°C, 30 min)   |  |   |
| ★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C,<br>1小時) / DEHP (Di-(2-ethylhexyl) phthalate)<br>(CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)     | 食品器具、容器、包裝檢驗方法-塑膠類之檢驗<br>(107年10月4日衛授食字第1071901983號公<br>告) 。 以氣相層析質譜儀分析。 / With<br>reference to Methods of Test for Food<br>Utensils, Containers and Packages - Test of<br>Plastics (MOHW Food No. 1071901983<br>announced, October 04, 2018), analysis was<br>performed by GC/MS. |   |
| ★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) /<br>DBP (Di-n-butyl phthalate) (CAS No.: 84-<br>74-2) (n-Heptane, 25°C, 1 hr)                    |  |   |
| ★鄰苯二甲酸二苄基酯 (正庚烷, 25°C, 1小時) /<br>BBP (Butyl Benzyl phthalate) (CAS No.: 85-<br>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) /<br>DIDP (Diisodecyl phthalate) (CAS No.:<br>26761-40-0; 68515-49-1) (n-Heptane, 25°C,<br>1 hr) |  |   |
| ★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) /<br>DINP (Diisononyl phthalate) (CAS No.:<br>28553-12-0; 68515-48-0) (n-Heptane, 25°C,<br>1 hr) |  |   |
| ★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小<br>時) / DEHA (Di-2-ethylhexyl Adipate) (CAS<br>No.: 103-23-1) (n-Heptane, 25°C, 1 hr)          |  |   |

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

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