

## Test Report 測試報告

Applicant: Hos Win Enterprise Co., Ltd.  
申請廠商 禹昌企業股份有限公司  
No. 6-3, Dalun Rd.,  
Dacun Township, Changhua County 51544,  
Taiwan  
彰化縣大村鄉大崙路 6 之 3 號

Number : TWNC01383608  
報告號碼

Issue Date : Aug 06, 2025  
報告發行日期

### Sample Description 樣品敘述:

One (1) Group of Submitted Samples Said To Be:

壹(一)件所送檢樣品據指(各)為:

Name of Sample : OPS FOOD CONTAINER

樣品名稱 OPS 食品容器

Country of Origin : Taiwan

原產地 台灣

Material Composition : PS

樣品材質

Responsible Domestic : Hos Win Enterprise Co., Ltd.

Company 國內負責廠商 禹昌企業股份有限公司

Date Sample Received : Jul 28, 2025

樣品收到日期

Date Test Started : Jul 28, 2025

開始測試日期

### Test Conducted 測試內容:

Tests were conducted by applicant's request, for details please refer to attached pages.

依據客戶要求執行測試，結果請參考附頁。

### Authorized By 審核者:

On behalf of Intertek Testing Services  
Taiwan Limited

全國公證檢驗股份有限公司

Matt Wang 王政雄  
General Manager 總經理



### Signed by 報告簽署人:

Thomas Chou

Thomas Chou 周世民  
Manager 經理



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Test Conducted 測試內容：

## Analysis of Food Utensils, Containers and Packages - Polystyrene (PS) as Raw Material

### 食品器具容器包裝檢測 - 原材料為聚苯乙烯(PS)

Method : Lead (Pb) / Cadmium (Cd)

檢驗方法 鉛含量 / 鎘含量

Sample was digested by microwave and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

樣品經微波消化後，以感應耦合電漿放射光譜儀(ICP-OES)測定。

#### Volatile Compounds

揮發性物質

Sample was extracted and heated, volatile gas was collected to be analyzed by Gas Chromatography-Mass Spectrometer (GC-MS).

樣品經萃取、加熱後，取揮發氣體以氣相層析質譜儀(GC-MS)測定。

#### Consumption of Potassium Permanganate

高錳酸鉀消耗量

Sample was migrated and migration solution was analyzed by titration.

樣品經溶出後，溶出液以滴定法測定。

#### Heavy Metals (as Pb)

重金屬(以 Pb 計)

Sample was migrated and migration solution was analyzed by colorimetry.

樣品經溶出後，溶出液以比色法測定。

#### Residues after Evaporation

蒸發殘渣

Sample was migrated and migration solution was weighted after evaporation.

樣品經溶出後，溶出液蒸發後秤重測定。

#### Migration of Phthalates

溶出塑化劑

Sample was migrated and migration solution was analyzed by Gas Chromatography-Mass Spectrometer (GC-MS).

樣品經溶出後，溶出液以氣相層析質譜儀(GC-MS)測定。

#### Phthalates

材質塑化劑

With reference to CNS 15138-1 (6/14/2012) - Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.

參考 CNS 15138-1 (101 年 6 月 14 日) - 塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第 1 部：氣相層析質譜法。



Test Conducted 測試內容 :

Analysis of Food Utensils, Containers and Packages - Polystyrene (PS) as Raw Material (Cont'd)  
食品器具容器包裝檢測 - 原材料為聚苯乙烯(PS) (續)

Result :  
檢驗結果

| Test Item<br>檢驗項目  | Unit 單位 | Limit of quantitation<br>定量極限 | Result<br>檢出值<br><br><u>Transparent plastic container</u><br><u>(see arrow)</u><br><u>透明塑膠容器</u><br><u>(見箭頭)</u> | Limit #<br>限值 |
|--|---------|-------------------------------|--|---------------|
| <b>Material Test 材質試驗</b>                                  |         |                               |  |               |
| Lead (Pb)<br>鉛含量   | ppm     | 5                             | Not detected<br>未檢出  | 100           |
| Cadmium (Cd)<br>鎘含量  | ppm     | 0.5                           | Not detected<br>未檢出  | 100           |
| Di(2-ethylhexyl) Phthalate (DEHP)<br>鄰苯二甲酸二(2-乙基己基)酯(DEHP) | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Di-n-octyl Phthalate (DNOP)<br>鄰苯二甲酸二正辛酯(DNOP)             | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Dibutyl Phthalate (DBP)<br>鄰苯二甲酸二丁酯(DBP)                   | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Benzyl butyl Phthalate (BBP)<br>鄰苯二甲酸丁苯甲酯(BBP)             | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Di-isodecyl Phthalate (DIDP)<br>鄰苯二甲酸二異癸酯(DIDP)            | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Di-isononyl Phthalate (DINP)<br>鄰苯二甲酸二異壬酯(DINP)            | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Dimethyl Phthalate (DMP)<br>鄰苯二甲酸二甲酯(DMP)                  | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Diethyl Phthalate (DEP)<br>鄰苯二甲酸二乙酯(DEP)                   | %       | 0.003                         | Not detected<br>未檢出  | 0.1           |
| Volatile Compounds -<br>Styrene<br>揮發性物質-苯乙烯               | ppm     | 10                            | 251  | --            |
| Volatile Compounds -<br>Toluene<br>揮發性物質-甲苯                | ppm     | 10                            | Not detected<br>未檢出  | --            |
| Volatile Compounds -<br>Ethyl Benzene<br>揮發性物質-乙苯          | ppm     | 10                            | Not detected<br>未檢出  | --            |



Test Conducted 測試內容 :

Analysis of Food Utensils, Containers and Packages - Polystyrene (PS) as Raw Material (Cont'd)  
食品器具容器包裝檢測 - 原材料為聚苯乙烯(PS) (續)

Result :  
檢驗結果

| Test Item<br>檢驗項目   | Unit 單位 | Limit of quantitation<br>定量極限 | Result<br>檢出值<br><br><u>Transparent plastic container</u><br><u>(see arrow)</u><br><u>透明塑膠容器</u><br><u>(見箭頭)</u> | Limit #<br>限值 |
|---|---------|-------------------------------|--|---------------|
| <b>Material Test 材質試驗</b>   |         |                               |  |               |
| Volatile Compounds -<br>N-Propyl Benzene<br>揮發性物質-正丙苯   | ppm     | 10                            | Not detected<br>未檢出  | --            |
| Volatile Compounds -<br>Iso-propylbenzene<br>揮發性物質-異丙苯  | ppm     | 10                            | Not detected<br>未檢出  | --            |
| Sum of Above Volatile Compounds<br>上列五種揮發性物質總和  | ppm     | --                            | 251  | 5000          |
| <b>Migration Test 溶出試驗</b>  |         |                               |  |               |
| Consumption of Potassium Permanganate<br>高錳酸鉀消耗量<br>(Water, 95°C, 30 min)<br>(水、95°C、30 分鐘)   | ppm     | 0.2                           | 0.3  | 10            |
| Heavy Metals (as Pb)<br>重金屬(以 Pb 計)<br>(4% Acetic Acid, 95°C, 30 min)<br>(4% 醋酸、95°C、30 分鐘)   | ppm     | 1                             | < 1  | 1             |
| Residues after Evaporation (pH>5)<br>蒸發殘渣(pH>5)<br>(Water, 95°C, 30 min)<br>(水、95°C、30 分鐘)  | ppm     | 1                             | 2  | 30            |
| Residues after Evaporation (pH≤5)<br>蒸發殘渣(pH≤5)<br>(4% Acetic Acid, 95°C, 30 min)<br>(4% 醋酸、95°C、30 分鐘)   | ppm     | 1                             | 1  | 30            |
| Residues after Evaporation<br>(Food Containing Surface Oils / Oils and Fatty Foods)<br>蒸發殘渣(含表面油脂/脂肪性食品)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1小時) | ppm     | 1                             | Not detected<br>未檢出  | 240           |



Test Conducted 測試內容 :

Analysis of Food Utensils, Containers and Packages - Polystyrene (PS) as Raw Material (Cont'd)  
食品器具容器包裝檢測 - 原材料為聚苯乙烯(PS) (續)

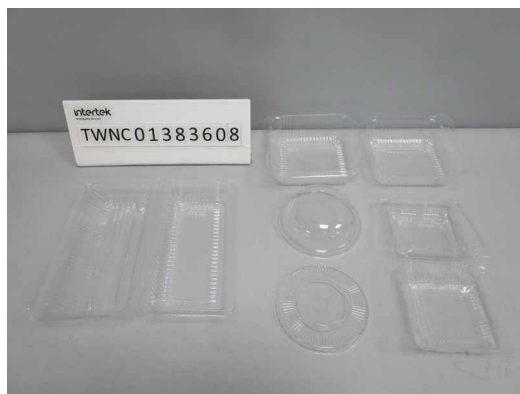
Result :  
檢驗結果

| Test Item<br>檢驗項目  | Unit 單位 | Limit of quantitation<br>定量極限 | Result<br>檢出值<br><br><u>Transparent plastic container</u><br><u>(see arrow)</u><br><u>透明塑膠容器</u><br><u>(見箭頭)</u> | Limit #<br>限值 |
|--|---------|-------------------------------|--|---------------|
| <b>Migration Test 溶出試驗</b>   |         |                               |  |               |
| Residues after Evaporation<br>(Foods Containing Alcohol)<br>蒸發殘渣(含酒精成分食品)<br>(20% Alcohol, 60°C, 30 min)<br>(20%乙醇、60°C、30 分鐘) | ppm     | 1                             | Not detected<br>未檢出  | 30            |
| Di(2-ethylhexyl) Phthalate (DEHP)<br>鄰苯二甲酸二(2-乙基己基)酯(DEHP)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                     | ppm     | 0.05                          | Not detected<br>未檢出  | 1.5           |
| Dibutyl Phthalate (DBP)<br>鄰苯二甲酸二丁酯(DBP)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                                       | ppm     | 0.05                          | Not detected<br>未檢出  | 0.3           |
| Benzyl butyl Phthalate (BBP)<br>鄰苯二甲酸丁苯甲酯(BBP)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                                 | ppm     | 0.05                          | Not detected<br>未檢出  | 30            |
| Di-isononyl Phthalate (DINP)<br>鄰苯二甲酸二異壬酯(DINP)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                                | ppm     | 0.5                           | Not detected<br>未檢出  | 9             |
| Di-isodecyl Phthalate (DIDP)<br>鄰苯二甲酸二異癸酯(DIDP)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                                | ppm     | 0.5                           | Not detected<br>未檢出  | 9             |
| Di-2-ethylhexyl Adipate (DEHA)<br>己二酸二辛酯(DEHA)<br>(n-Heptane, 25°C, 1 hour)<br>(正庚烷、25°C、1 小時)                                 | ppm     | 0.05                          | Not detected<br>未檢出  | 18            |

As per applicant's provided requirement  
依據客戶要求  
CNS : Chinese National Standards 中華民國國家標準

Sample photo 樣品照片 :

The tested part is indicated with the red arrow on the sample photo  
樣品中紅色箭頭表示實際測試樣品部位



End of Report

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