

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 : TWNC01379320
報告號碼

Issue Date : Jul 21, 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 : PS FOAM CONTAINER WHITE COLOR

樣品名稱 PS 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 10, 2025

樣品收到日期

Date Test Started : Jul 10, 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。

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。

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。

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 檢驗項目	Unit 單位	Limit of quantitation 定量極限	Result 檢出值 <u>White plastic tray</u> <u>(see arrow)</u> <u>白色塑膠盤</u> <u>(見箭頭)</u>	Limit # 限值
Material Test 材質試驗				
Lead (Pb) 鉛含量	ppm	5	Not detected 未檢出	100
Cadmium (Cd) 鎘含量	ppm	0.5	Not detected 未檢出	100
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯(DEHP)	%	0.003	Not detected 未檢出	0.1
Di-n-octyl Phthalate (DNOP) 鄰苯二甲酸二正辛酯(DNOP)	%	0.003	Not detected 未檢出	0.1
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯(DBP)	%	0.003	Not detected 未檢出	0.1
Benzyl butyl Phthalate (BBP) 鄰苯二甲酸丁苯甲酯(BBP)	%	0.003	Not detected 未檢出	0.1
Di-isodecyl Phthalate (DIDP) 鄰苯二甲酸二異癸酯(DIDP)	%	0.003	Not detected 未檢出	0.1
Di-isononyl Phthalate (DINP) 鄰苯二甲酸二異壬酯(DINP)	%	0.003	Not detected 未檢出	0.1
Dimethyl Phthalate (DMP) 鄰苯二甲酸二甲酯(DMP)	%	0.003	Not detected 未檢出	0.1
Diethyl Phthalate (DEP) 鄰苯二甲酸二乙酯(DEP)	%	0.003	Not detected 未檢出	0.1
Volatile Compounds - Styrene 揮發性物質-苯乙烯	ppm	10	212	1000
Volatile Compounds - Toluene 揮發性物質-甲苯	ppm	10	Not detected 未檢出	--
Volatile Compounds - Ethyl Benzene 揮發性物質-乙苯	ppm	10	Not detected 未檢出	1000
Volatile Compounds - N-Propyl Benzene 揮發性物質-正丙苯	ppm	10	Not detected 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

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Material Test 材質試驗				
Volatile Compounds - Iso-propylbenzene 揮發性物質-異丙苯	ppm	10	Not detected 未檢出	--
Sum of Above Volatile Compounds 上列五種揮發性物質總和	ppm	--	212	2000
Migration Test 溶出試驗				
Consumption of Potassium Permanganate 高錳酸鉀消耗量 (Water, 95°C, 30 min) (水、95°C、30分鐘)	ppm	0.2	2.7	10
Heavy Metals (as Pb) 重金屬(以 Pb 計) (4% Acetic Acid, 95°C, 30 min) (4% 醋酸、95°C、30分鐘)	ppm	1	< 1	1
Residues after Evaporation (pH>5) 蒸發殘渣(pH>5) (Water, 95°C, 30 min) (水、95°C、30分鐘)	ppm	1	Not detected 未檢出	30
Residues after Evaporation (pH≤5) 蒸發殘渣(pH≤5) (4% Acetic Acid, 95°C, 30 min) (4% 醋酸、95°C、30分鐘)	ppm	1	2	30
Residues after Evaporation (Food Containing Surface Oils / Oils and Fatty Foods) 蒸發殘渣(含表面油脂/脂肪性食品) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1小時)	ppm	1	Not detected 未檢出	240



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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

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Migration Test 溶出試驗				
Residues after Evaporation (Foods Containing Alcohol) 蒸發殘渣(含酒精成分食品) (20% Alcohol, 60°C, 30 min) (20%乙醇、60°C、30 分鐘)	ppm	1	1	30
Di(2-ethylhexyl) Phthalate (DEHP) 鄰苯二甲酸二(2-乙基己基)酯(DEHP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	1.5
Dibutyl Phthalate (DBP) 鄰苯二甲酸二丁酯(DBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	0.3
Benzyl butyl Phthalate (BBP) 鄰苯二甲酸丁苯甲酯(BBP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 未檢出	30
Di-isononyl Phthalate (DINP) 鄰苯二甲酸二異壬酯(DINP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.5	Not detected 未檢出	9
Di-isodecyl Phthalate (DIDP) 鄰苯二甲酸二異癸酯(DIDP) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.5	Not detected 未檢出	9
Di-2-ethylhexyl Adipate (DEHA) 己二酸二辛酯(DEHA) (n-Heptane, 25°C, 1 hour) (正庚烷、25°C、1 小時)	ppm	0.05	Not detected 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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