

## 測試報告

報告編號(No.): HTF20A00556

報告日期(DATE): 2020/11/03

頁數(PAGE): 1 of 9

## Test Report

台灣積層工業股份有限公司 ( TAIWAN LAMINATION INDUSTRIES, INC. )

桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

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) : 霧面高阻隔透明PE袋(厚材質)  
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.) : -  
樣品批號(Lot. No.) : -  
樣品材質(Sample Material) : OPP/MPET/LLDPE  
送樣廠商(Sample Submitted By) : 台灣積層工業股份有限公司 ( TAIWAN LAMINATION INDUSTRIES, INC. )  
送樣廠商地址/電話/連絡人(Company Add/Tel/Contact Person) : 桃園市中壢區新北園路11號(11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61) / 03-4626789 / -  
製造日期(Manufacturing Date) : -  
有效日期(Expiry Date) : -  
收件日(Sample Receiving Date) : 2020/10/23  
測試期間(Testing Period) : 2020/10/23 to 2020/11/03

## 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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桃園市中壢區新北園路11號 (11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61)

## 測試部位敘述(Test Part Description)

- No.1 : 軟性包材 (FLEXIBLE PACKAGING)
- No.2 : 軟性包材 (與食物接觸面) (FLEXIBLE PACKAGING (FOOD CONTACT SIDE))

## 測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		限值 (Limit)
				No.1	No.2	
★鉛 / Lead (Pb)	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) · 以感應耦合電漿原子發射光譜儀 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 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- (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.	%	0.003	n.d.	---	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515- 49-1)		%	0.01	n.d.	---	0.1

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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		限值 (Limit)
				No.1	No.2	
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	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.	%	0.01	n.d.	---	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	---	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	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, 60°C, 30分鐘) / Potassium permanganate consumption-(water, 60°C, 30 min)	食品器具、容器、包裝檢驗方法-聚乙稀(PE)塑膠類之檢驗 (107年9月17日衛授食字第1071901780號公告) 。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, September 17, 2018).	ppm	3	---	n.d.	10
★蒸發殘渣-(水, 60°C, 30分鐘) / Evaporation residue-(water, 60°C, 30 min)		ppm	3	---	n.d.	30
★重金屬(以鉛計)-(4%醋酸, 60°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60°C, 30 min)		ppm	-	---	<1	1
★蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)		ppm	3	---	3	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		ppm	3	---	n.d.	150 (*2)
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)		ppm	3	---	n.d.	30

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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)		限值 (Limit)
				No.1	No.2	
★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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### 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. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
3. mg/kg = ppm ; 0.1wt% = 1000 ppm
4. LOQ = Limit of Quantification (定量極限) ; LOD = Limit of Detection (偵測極限)
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. (\*2): 針對加工及調理過程溫度100°C以下之產品。(For the products which are heated to not higher than 100°C during food processing and cooking.)
9. 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.)
10. 測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation.)

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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

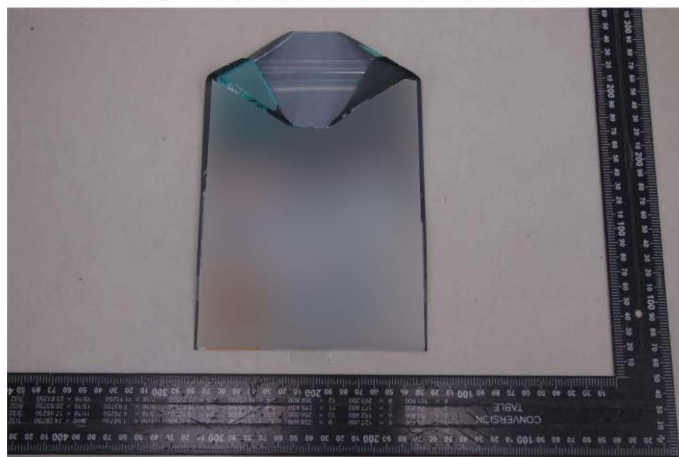
\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

### HTF20A00556 NO.1



### HTF20A00556 NO.2



**\*\* 報告結尾 (End of Report) \*\***

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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

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 : )

HTF20A00556

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	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) , 以感應耦合電漿原子發射光譜儀分析。 / 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 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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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

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 : )

HTF20A00556

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★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.	詳見測試結果之定量/偵測極限。 (Please refer to the result table above.)
★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)		
★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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# 測試報告

## Test Report

報告編號(No.): HTF20A00556

報告日期(DATE): 2020/11/03

頁數(PAGE): 9 of 9

台灣積層工業股份有限公司 ( TAIWAN LAMINATION INDUSTRIES, INC. )

桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61 )

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 : )

HTF20A00556

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★高錳酸鉀消耗量-(水, 60°C, 30分鐘) / Potassium permanganate consumption- (water, 60°C, 30 min)	食品器具、容器、包裝檢驗方法-聚乙 (PE)塑膠類之檢驗 (107年9月17日衛授食 字第1071901780號公告) 。 / With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, September 17, 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, 60°C, 30分鐘) / Evaporation residue-(water, 60°C, 30 min)		
★重金屬(以鉛計)-(4%醋酸, 60°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60°C, 30 min)		
★蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 hr)		
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)		

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. )

測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation. )

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# 測試報告

## Test Report

報告編號(No.): HTF20A00560

報告日期(DATE): 2020/11/10

頁數(PAGE): 1 of 3

台灣積層工業股份有限公司 (TAIWAN LAMINATION INDUSTRIES, INC.)  
桃園市中壢區新北園路11號 (11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61)

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) : 台灣積層工業股份有限公司 (TAIWAN LAMINATION INDUSTRIES, INC.)  
樣品名稱(Sample Description) : 霧面高阻隔透明PE透(厚材質)  
樣品材質(Sample Material) : OPP/VMPET/LLDPE  
收件日(Sample Receiving Date) : 2020/10/23  
測試期間(Testing Period) : 2020/10/23 to 2020/11/10

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

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



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# 測試報告

## Test Report

報告編號(No.): HTF20A00560

報告日期(DATE): 2020/11/10

頁數(PAGE): 2 of 3

台灣積層工業股份有限公司 (TAIWAN LAMINATION INDUSTRIES, INC.)  
桃園市中壢區新北園路11號 (11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61)

### 測試部位敘述(Test Part Description)

No.1 : 軟性包材(與食物接觸面) (FLEXIBLE PACKAGING (FOOD CONTACT SIDE))

### 測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	結果 (Result)
			No.1
透濕度 / Water vapor transmission rate	參考ASTM F1249. / With reference to ASTM F1249. (溫度 / Temperature: 37.8°C · 濕度 / Moisture: 90%)	g/(m <sup>2</sup> -day)	0.156
透氧度 / Oxygen transmission rate	參考ASTM D3985. / With reference to ASTM D3985. (溫度 / Temperature: 23°C · 濕度 / Moisture: 0%)	c.c./(m <sup>2</sup> -day)	0.124

### 備註(Note) :

- 透濕度試驗範圍 (Water vapor transmission rate test range) : 0.05~500 g/(m<sup>2</sup>-day)  
透氧度試驗範圍 (Oxygen transmission rate test range): 0.5~1000 c.c./(m<sup>2</sup>-day)
- 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- 本測試外包至其他實驗室執行。(The testing item(s) was/were subcontracted to other Laboratory.)

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## Test Report

報告編號(No.): HTF20A00560

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台灣積層工業股份有限公司 (TAIWAN LAMINATION INDUSTRIES, INC.)  
桃園市中壢區新北園路11號 (11 SHIN PEI YUAN RD., CHUNG LI TAIWAN 320-61)

\* 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.)

### HTF20A00560



**\*\* 報告結尾 (End of Report) \*\***

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