

# 測試報告 Test Report

報告編號(No.): HTF23201022

報告日期(DATE): 2023/03/06

頁數(PAGE): 1 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 DIST., TAOYUAN CITY, 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) :   
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/INK/VMPET/PPP  
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/聯絡人(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) / 03-462-6789 / -  
製造日期(Manufacturing Date) : -  
有效日期(Expiry Date) : -

=====

收件日(Sample Receiving Date) : 2023/02/21  
測試期間(Testing Period) : 2023/02/21 to 2023/03/06

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 (112.01.11部授食字第1111303439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. 1111303439, amended on 2023/01/11) 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 : 軟性包材 (整體樣品) (FLEXIBLE PACKAGING (WHOLE SAMPLE))  
 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)		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	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 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		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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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 DIST., TAOYUAN CITY, TAIWAN 320-61)

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, 60°C, 30分鐘) / Potassium permanganate consumption- (water, 60°C, 30 min)	衛生福利部107.09.17衛授食字 第1071901787號公告修正食品 器具、容器、包裝檢驗方法-聚 丙烯塑膠類之檢驗。 / 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, 60°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 60°C, 30 min)		ppm	-	---	<1	1
★蒸發殘渣-(水, 60°C, 30分鐘) / Evaporation residue-(water, 60°C, 30 min)		ppm	3	---	n.d.	30
★蒸發殘渣-(4%醋酸, 60°C, 30分鐘) / Evaporation residue-(4% acetic acid, 60°C, 30 min)		ppm	3	---	n.d.	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%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		ppm	3	---	n.d.	30
★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, Z8139-1: 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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	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 DIST., TAOYUAN CITY, TAIWAN 320-61)

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 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	CNS 15138-1, Z8139-1: 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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	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

## 備註(Note):

- 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.)
- 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.)
- 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- mg/kg = ppm ; 0.1wt% = 1000 ppm
- 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.)
- n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD
- "-" = Not Regulated (無規格值)
- "---" = Not Conducted (未測項目)

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9. (\*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.)
10. 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.)
11. 法規標準值係依據衛生福利部112年01月11日部授食字第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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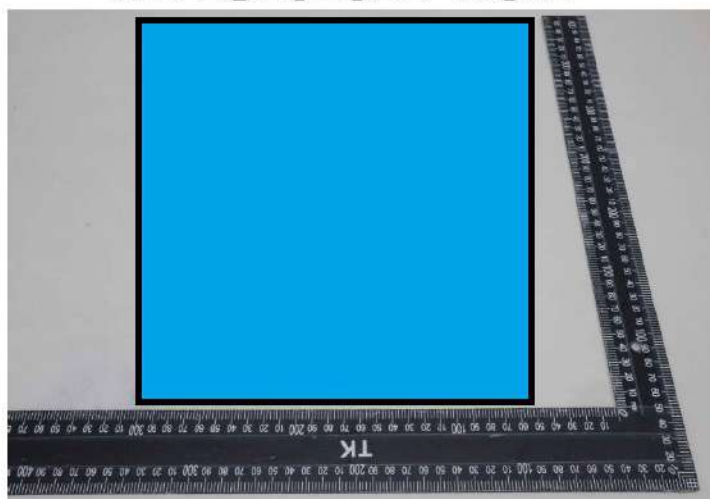
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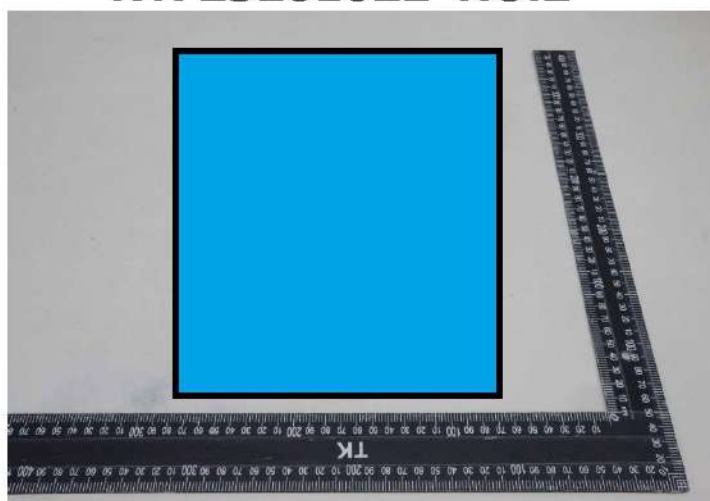
桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI DIST., TAOYUAN CITY, TAIWAN 320-61 )

\* 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.)

## HTF23201022 NO.1



## HTF23201022 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 DIST., TAOYUAN CITY, 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:)

HTF23201022

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).	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 (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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桃園市中壢區新北園路11號 ( 11 SHIN PEI YUAN RD., CHUNG LI DIST., TAOYUAN CITY, 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 : )

HTF23201022

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)	衛生福利部107.09.17衛授食字第 1071901787號公告修正食品器具、容 器、包裝檢驗方法-聚丙稀塑膠類之檢 驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Polypropylene (PP) Plastic Products (MOHW Food No. 1071901787 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%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		
★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, Z8139-1: 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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	
★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)		

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# 測試報告 Test Report

報告編號(No.): HTF23201022

報告日期(DATE): 2023/03/06

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 DIST., TAOYUAN CITY, 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 : )

HTF23201022

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	CNS 15138-1, Z8139-1：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。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	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)		

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. )

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# 測試報告 Test Report

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報告日期(DATE): 2023/03/06

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 DIST., TAOYUAN CITY, 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) :   
樣品材質(Sample Material) : OPP/INK/VMPET/CPP

=====

收件日(Sample Receiving Date) : 2023/02/21  
測試期間(Testing Period) : 2023/02/21 to 2023/03/06

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

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



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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 DIST., TAOYUAN CITY, 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
透氧度 / Oxygen transmission rate	參考ASTM D3985-17. (溫度: 23.0°C, 濕度: 0%) / With reference to ASTM D3985-17. (Temperature: 23.0°C, Moisture: 0%)	c.c./ $(m^2\text{-day})$	0.325
透濕度 / Water vapor transmission rate	參考ASTM F1249-20. (溫度: 37.8°C, 濕度: 100%) / With reference to ASTM F1249-20. (Temperature: 37.8°C, Moisture: 100%)	g/ $(m^2\text{-day})$	0.649

## 備註(Note) :

- 透氧度試驗範圍(Oxygen transmission rate test range) : 0.05~200 c.c./ $(m^2\text{-day})$   
透濕度試驗範圍(Water vapor transmission rate test range) : 0.005~100 g/ $(m^2\text{-day})$
- 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- 此項目轉包予雜貨實驗室進行測試。(This testing item(s) was subcontracted to SGS Taiwan Limited – Hardline Laboratory.)

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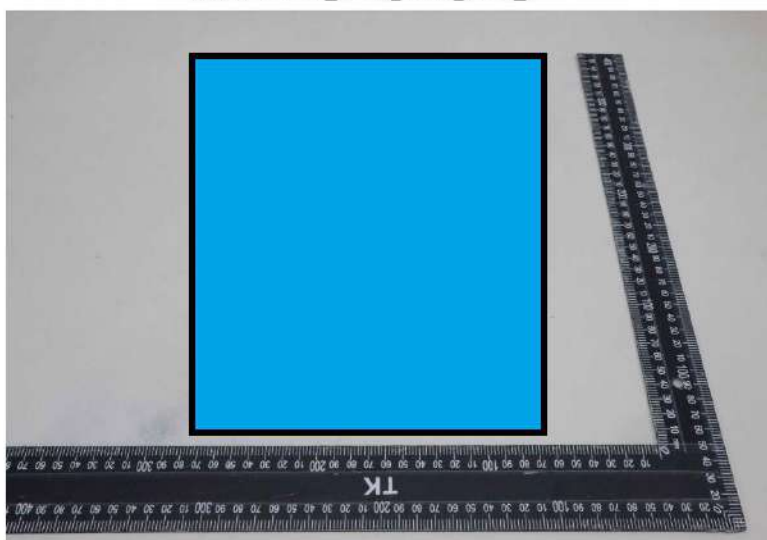
台灣積層工業股份有限公司 (TAIWAN LAMINATION INDUSTRIES, INC.)

桃園市中壢區新北園路11號 (11 SHIN PEI YUAN RD., CHUNG LI DIST., TAOYUAN CITY, 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.)

### HTF23201023



\*\* 報告結尾 (End of Report) \*\*

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