SPECIFICATION FOR APPROVAL

Customer Name : DIVA Laboratories,Ltd.
CUST. PT/NO : 3MD525FT010(M3344)
SBI PT/NO : GWAR100-27B-A2
SUBMIT NO : 27”AR GLASS COVER

APPROVAL BY:



Date :Oct.,22,2025



SBI Material Technology Co.

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THIS DOCUMENT SHALL REVIEWED WITHIN 1 YEAR OF THE LATEST LEASE DATE BY THE RELEASING AUTHORITY

機 密 文 件
CONFIDENTIAL
泰懋科技 SBI Material Tech. Co.

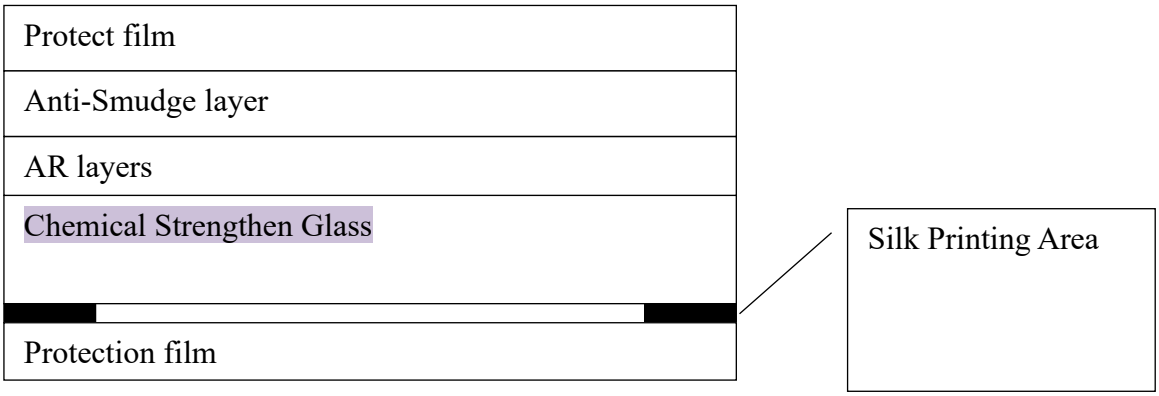
Ver.	Release description	Remarks
00	New version release	Oct. 22.2025

1. Generally

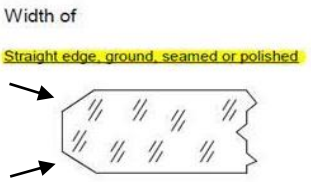
This specification is applied to DIVA Laboratories, Ltd. for Glass protect plate with multi-layers AR coating and AS Coating, using the E-Beam coating deposition process.

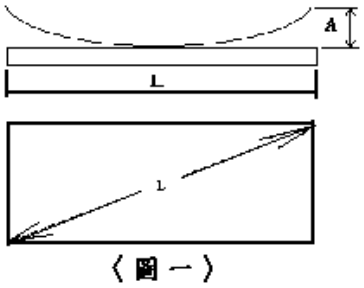
2. Specifications

2.1 Construction



2.2 Dimension & Physical properties

No	Item	Specification	Inspect Method
1	Base Material	SODA-LIME GLASS	Asahi glass or Equivalent item.
2	Outline Dimension & C cut edge definition	1.As Attached Page 2.Glass grinding C cut edge:C0.3~0.5 	Vernier caliper
3	Thickness	2.8 ± 0.2 mm	Dial gauge
4	Weight (Glass gravity:2.5)	2.0± 0.1kg	Electronic scales

5	Warp	Warp A: ≦±1.3mm , (A/L ≦ ±2%)  〈圖一〉	Thick gauge

2.3 Characteristics

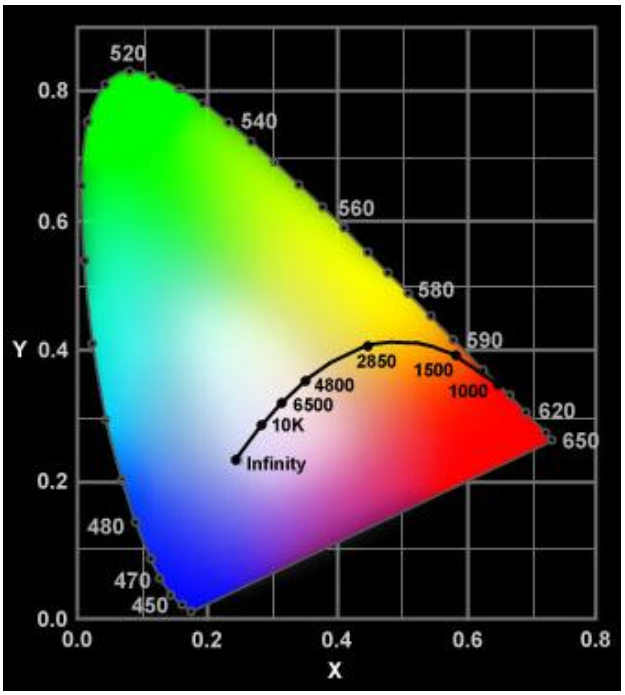
Item	Specification	Inspect Method
1.Transmittance (Measure by both side)	95%±1.5% (450~650nm avg.)	ISO 9050 : 2003(E)
2.Reflection (Measure by both side)	≦5.0% (450~650nm avg.)	ISO 9050 : 2003(E)
3. Surface hardness	≧6H	ISO 15184 (@1000g)
4. Anti-Smudge (ARAS side)	≧110 degree	Pure water contact angle meter (PWCA)
5. Ion exchange layers (Chemical Strengthen)	≧ 7um	Ion exchange layers meter
6. Center Stress (Chemical Strengthen)	> 400MPa	Center Stress meter
7. Reflection Color (Activity Area not Printing area)	Greenish~Natural color	By naked eye or measure by CIE(x,y)value as [Notice].

[**Notice**] Reflection color definition by CIE (x，y) value excepting naked eye inspection.

If the measure value is under the x，y zone definition that will be acceptable.
Measure Area: Center location of AA' Zone of AR glass.
Measurement Equipment: Hunterlab Spectrophotometer

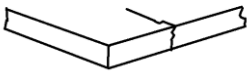
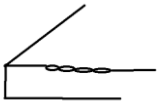
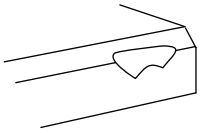
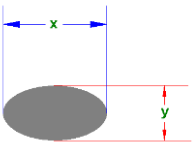
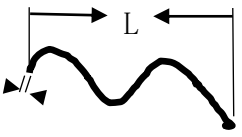
〔**Definition of x，y color zone**〕

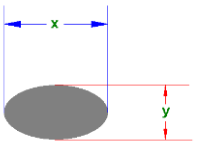
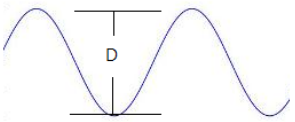
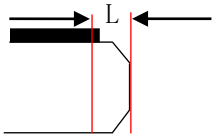
Axis	Min.	Std.	Max.
x	0.2747	0.3053	0.3358
y	0.2876	0.3196	0.3515



[CIE Chart]

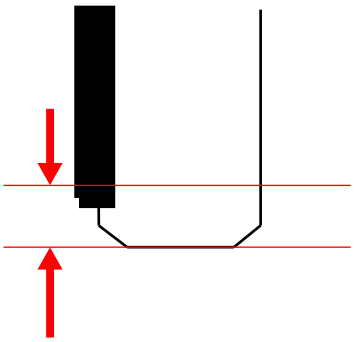
2.4 Appearance

<table>
<tr><th>Item</th><th colspan="4">Specification</th><th>Inspect Method</th></tr>
<tr><td>1.Fracture</td><td colspan="4">Not allowed </td><td>Visual by eye</td></tr>
<tr><td>2.Chipping</td><td colspan="4">D ≦0.1 </td><td>Visual by eye</td></tr>
<tr><td>3.Chip on edges</td><td colspan="4"> x≦0.3 y≦0.3 D≦1/2t</td><td>Visual by eye</td></tr>
<tr><td rowspan="4">4.Scratch</td><td>(L)</td><td colspan="2">(W)</td><td>allow amount</td><td rowspan="8">Inspection environment: Under the lighting source of 40W(800±200lux) fluorescent -lamp
(follow product spec)
unit:mm
D=(x+y)/2

[Definition of D]

[Definition of L]</td></tr>
<tr><td>-</td><td colspan="2">≦0.05</td><td>≦3pcs/per10cm diameter circle</td></tr>
<tr><td>≦10mm</td><td colspan="2">≦0.10 ＞0.05</td><td>≦2pcs/per10cm diameter circle</td></tr>
<tr><td>-</td><td colspan="2">＞0.10</td><td>0</td></tr>
<tr><td rowspan="4">5.spot defects ､ Particles､Dent. coating defects</td><td>Size (D)</td><td colspan="3">allow amount</td></tr>
<tr><td>≦0.2</td><td colspan="3">ignore</td></tr>
<tr><td>≦0.4 ＞0.2</td><td colspan="3">≦5pcs/ per 10cm diameter circle</td></tr>
<tr><td>≦0.60 ＞0.40</td><td colspan="3">≦3pcs/ per 10cm diameter circle</td></tr>
<tr><td>6.Glass Bubble</td><td>＞0.60</td><td colspan="3">0</td></tr>
<tr><td colspan="2">6.Glass Bubble</td><td colspan="2">≦0.2</td><td colspan="2">ignore</td></tr>
<tr><td rowspan="3">7. Printing Particle</td><td rowspan="3">Greasy dirt & spot</td><td colspan="2">≦0.15mm</td><td colspan="2">Ignore</td></tr>
<tr><td colspan="2">0.15＜D≦0.4mm</td><td colspan="2">Distance ≧ 50mm,3pcs</td></tr>
<tr><td colspan="2">＞0.4mm</td><td colspan="2">not allowed</td></tr>
</table>

8. printing zone-Pervious to light	≦0.20mm	ignore	Inspection environment: Under the light source of 40W (800±200lux) fluorescent -lamp unit:mm D=(x+y)/2  refer to limit sample
	0.2＜D≦0.5mm	patching allow , thickness≦0.3mm n≦8pcs	
	0.5mm＜D≦1.0mm	patching allow , thickness≦0.3mm n≦5 pcs	
	>1.0mm	Not allowed	
9.Display zone-ink spot	not allowed		
10.Saw Edge of Printing	D≦0.35mm: Acceptable		
11.Non-effect area of printing	L ≦ 1.5mm from the edge of glass, ignore area of inspection.		
12.Adhesion of Printing	Cross Cut testing method for ink layers.Tape test by 3M#610 . Result≧4B		Refer. figure 2.4.1
13. Printing color	base on limit sample		Max. /Min.limited Or measure by spectrophotometer
14. Printing dimension	base on artwork drawing		

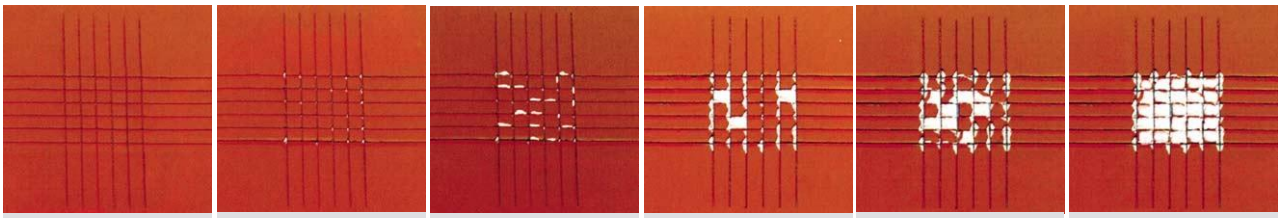
Definition Notice : Non-effect area of printing edge.





The distance defines L≦1.5mm between printing edge and glass edge. Not concern above area when inspection.

Figure 2.4.1 [Ink adhesion test]



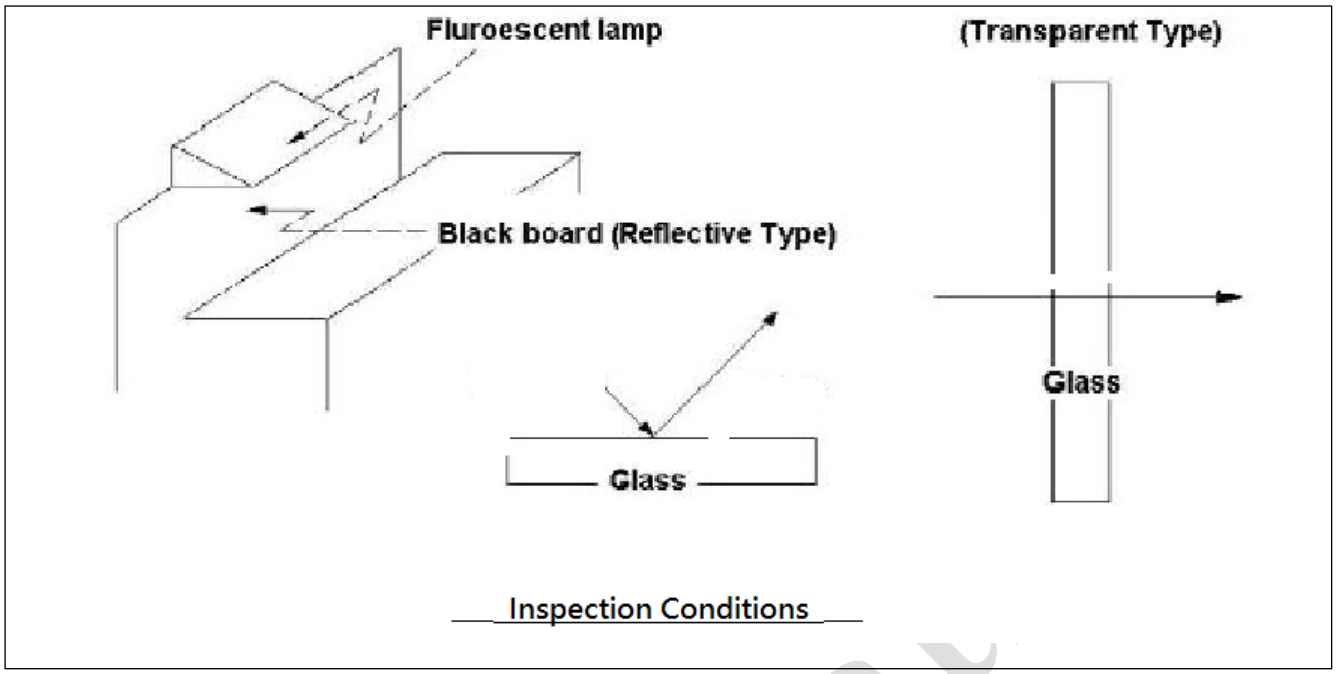
ISO class 0 ASTM class 5B	ISO class 1 ASTM class 4B	ISO class 2 ASTM class 3B	ISO class 3 ASTM class 2B	ISO class 4 ASTM class 1B	ISO class 5 ASTM class 0B
Cutting edge is perfectly and Ink no peeling.	Has a small crack at cross cut edge. Peeling off area	Has a small crack at cross cut edge. Peeling off area 5% ～ 15% of all area.	Has a small crackor whole chip peeling at cross cut edge.Peeling off area 15% ～35% of all area	Has abigcrackor whole chip peeling at cross cut edge.Peeling off area 35% ～65% of all area	Has abigcrackor whole chip peeling at cross cut edge.

Note: **[Inspection Condition and Checking Environment]**

1.To inspect the defects by naked eyes (1.0 after eyes correction). (Horizontal±35° /Vertical±15°)The inspection method by transmission and reflectance visual, visual distance and inspection time is 40 cm/15sec per piece, the lamp (800 +/-200lux) is set upper side on object (with black background).

2.Cosmetic defect of Printing: Not concern the defect of printing size if defect not influence or impact the cosmetic performance of front side.

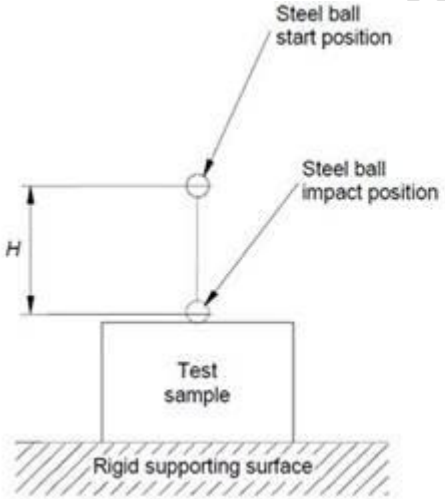
Specif


Fluroescent lamp
(Transparent Type)
Black board (Reflective Type)
Glass
Glass
Inspection Conditions

Specifica

2.5 Reliability

Item	Specification	Test method
1.High temperature	Not allow peeling	60℃ for 168hrs 1. Rubbing by an eraser 2. Cellophane tape test(3M#600) (MIL-C-675C)
2.Low temperature	Not allow peeling	-20℃for 168hrs 1.Rubbing by an eraser 2.Cellophane tape test(3M#600) (MIL-C-675C)
3.Temp & humidity	Not allow peeling	60℃/90%RH 168hrs 1.Rubbing by an eraser 2.Cellophane tape test(3M#600) (MIL-C-675C)
4.Thermal cycle	Not allow peeling	(-20℃/24hrs+60℃/24hrs)1 cycle 1.Rubbing by an eraser 2.Cellophane tape test(3M#600) (MIL-C-675C)
5.Adhesion test	Ink peeling-not allow	60℃/90%RH 168hrs Cellophane tape test (3M#600)(MIL-C-675C)
6.Impact Test	Not allow broken	Dropping test by steel ball, 500g weight /1.2m high.(About 5.88J)

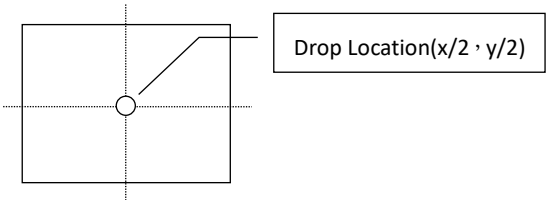


Impact Test Condition:

Iron Ball Weight:

500g+/-10g Height: 1.2Meter

Drop Test Location: Center of Front Cover



Specification

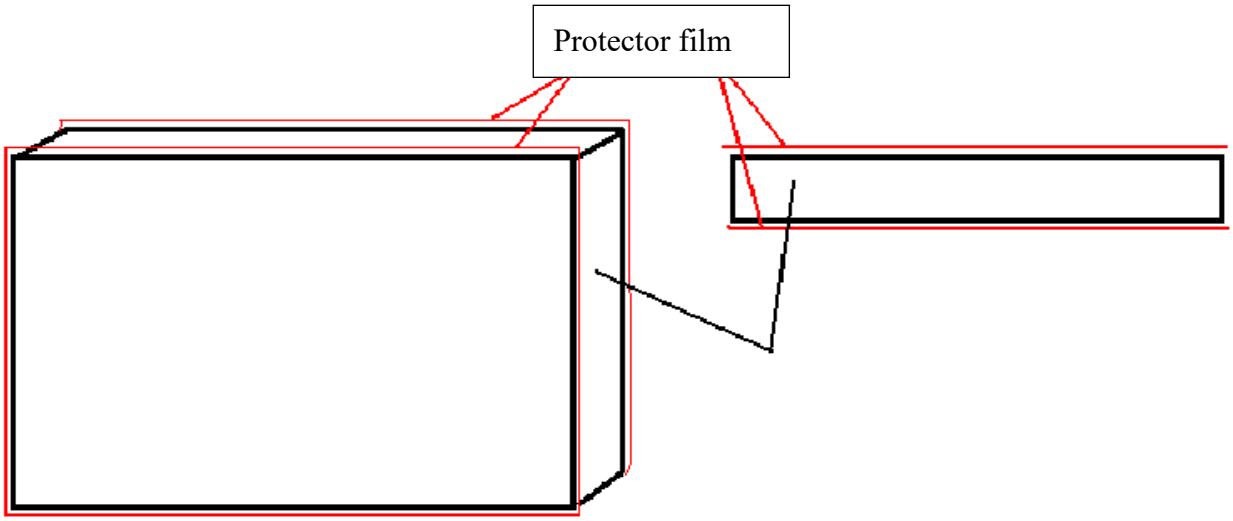
2.6 Chemical Resistance

No.	Item	Test Method	Specification	Result
1	Sulfuric acid 5% (H2SO4)	ARAS surface 24hrs/25℃,65%RH	No damage	PASS
2	Hydrochloric Acid 5% (HCL)		No damage	PASS
3	Coca Cola		No damage	PASS
4	Detergent		No damage	PASS
5	Methyl Ethyl Ketone		No damage	PASS
6	Acetone		No damage	PASS
7	Ethyl Acetate		No damage	PASS
8	Medical Alcohol 95%		No damage	PASS
9	Ethyl Alcohol 99.5%		No damage	PASS
10	Sodium Hydroxide 5% (NaOH)		No damage	PASS

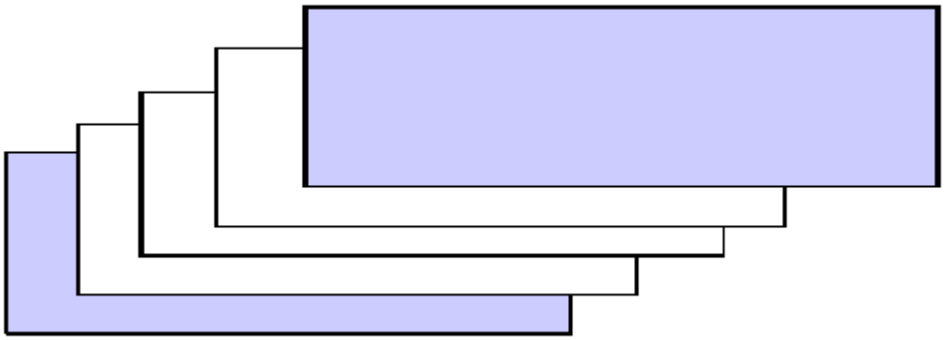
Specification

3. Package

3.1 Glass with protect film:



3.2 Package:



◎ Printing side towards downside

Fig 3.2

5pcs glass plate packing by yellow paper, and 3~6 paper packing in carton case(weight limited <25kg per carton). For the oversea transportation that will be packed by wooden case.

1 wooden: 500~1000pcs depend on the size and weight.

4. Procedure for Dealing with A Rejected Lot

When the Customer's incoming QA has determined the lot number of a reject lot, they will contact the supplier to request for a RETURN MATERIAL AUTHORIZATION (RMA) number. The supplier will request for samples of the rejected lot to be sent to the supplier for evaluation. If the supplier agrees that the lot is REJECTABLE, then the supplier will issue an RMA number. With an RMA number, the customer can then either return the material or destroy the material at the discretion of the supplier. The supplier will replace or CREDIT the goods punctually.

5. Storage Condition

3 months from the date of shipment in the stocked environment of under 20~25℃ and 50~60%RH. Removable stains and haze are acceptable. An insured carrier covers stains and haze caused by transportation.

6. Disclaimer Clause

Make sure the quality before into the production process, if quality defect occurs and confirm the responsibility, we will take the action for SWOP operation, but once the process is being used and confirmed the root cause by customer's manufacturing, SBI is not responsibility to assume.

7. Date of Availability

Changes made to apply to modify specifications are valid before.

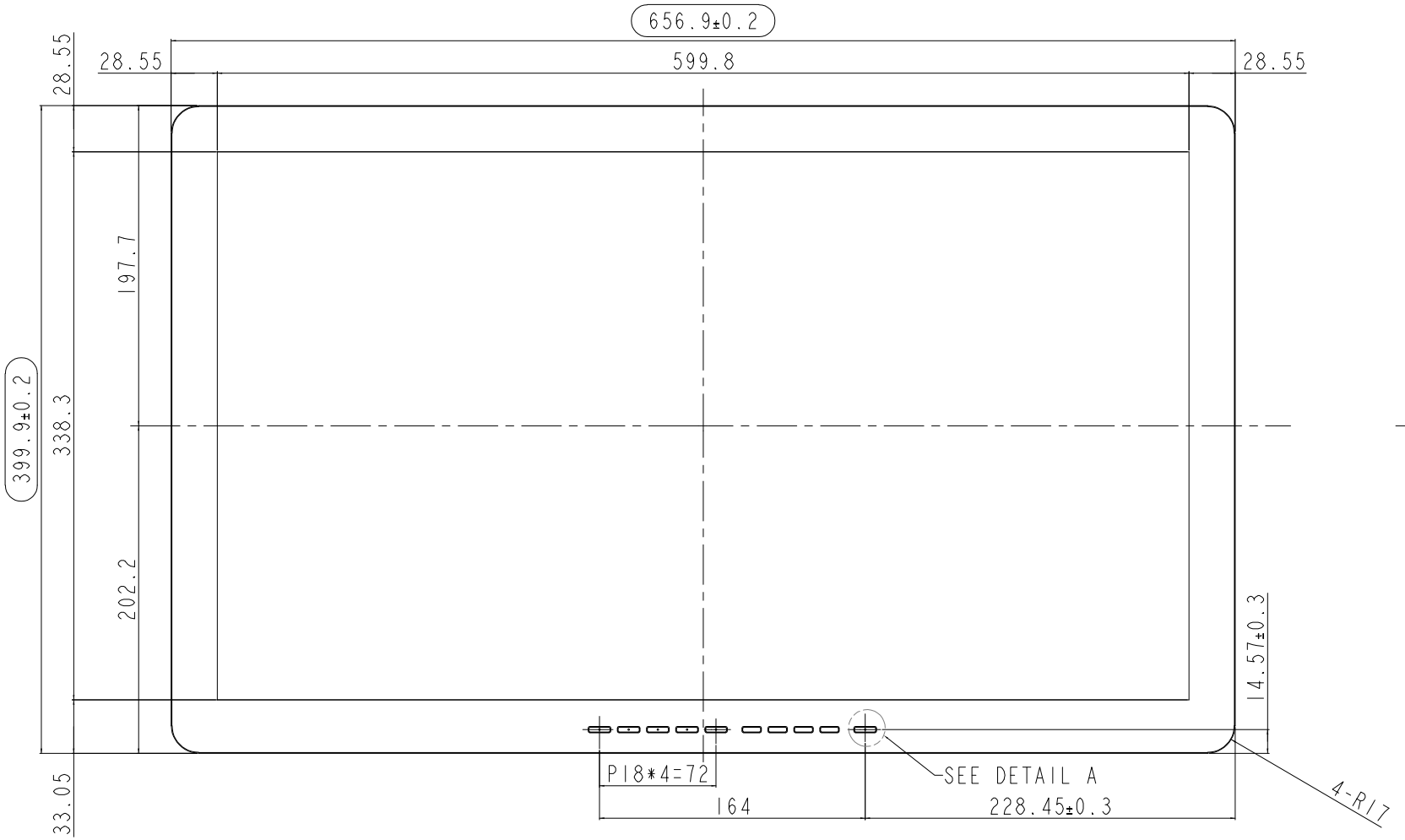
8. Others

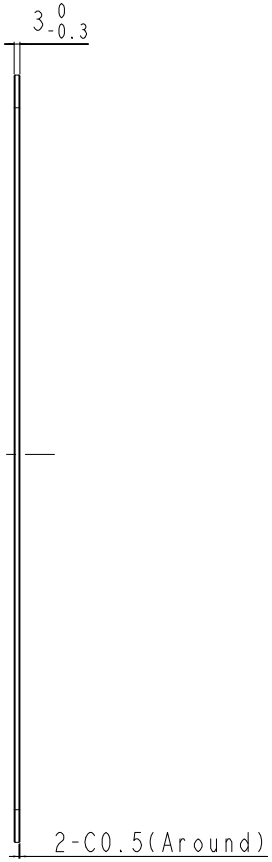
8.1 Didn't have RoHS substances of high concern.

8.2 Not qualified protect film is prohibited to laminate on AR side of glass. SBI is exclusion responsibility if customer change the protect film.

Specification

REV.	DATE	DESCRIPTION	BY	APVD
-	-	-	-	



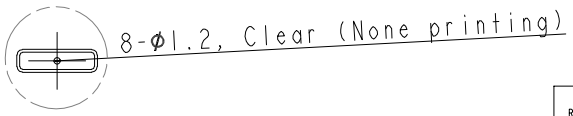


3MD525FT010(M3344)

NOTE:
1.Chemical Strengthened Glass.
2.Single Side AR Coating~
Average Transmittance
(Measure by both side)
Transmission:95%±1%

Average Reflect (%)
(Measure by single side)
Reflectance: <1.0%

3.AF(AS) Coating: Front Side
4.Printing:
Refer to Artwork.
5.RoHS Compliant.



Scale 3.000
DETAIL A

設計驗證
工程課
2025-10-23
發行

3MD525FT020	WHITE	
3MD525FT010	BLACK	
P/N	PRINT COLOR	REMARK

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	V c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30-120	±0.15	±0.30	±0.80
ABOVE 120-315	±0.20	±0.50	±1.20
ABOVE 315-1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

UNITS: mm | SCALE: 1/1 | SHEET: 1 OF 1 | MODEL NO.: SC27810

MATERIAL: | TREATMENT:

DSGD by JOSEPH 2025-08-08

CHK by

APVD by

APVD NO.:

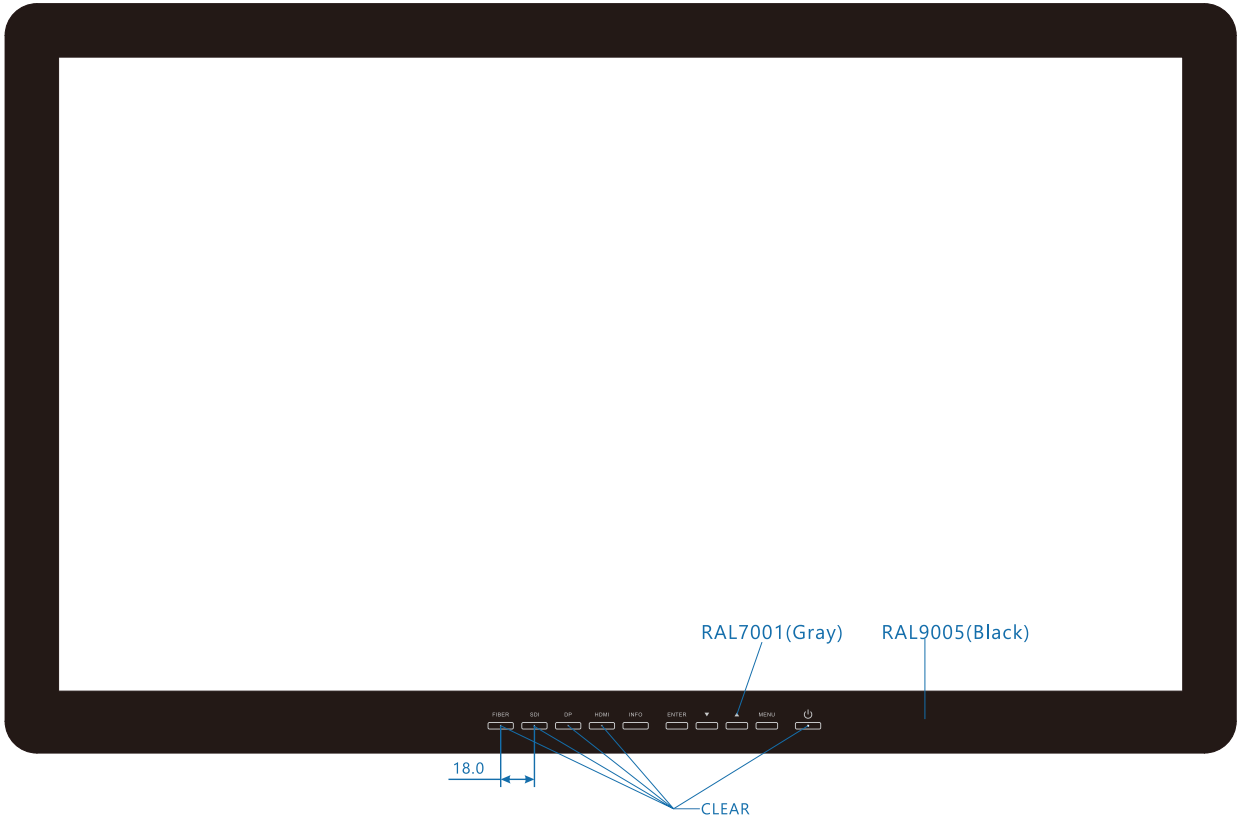
3D FILE NAME: 27_00002_COVER_GLASS

PART NAME: AR GLASS

PART NO.: 3MD525FT0XX | REV. 0

DIA Laboratories ,Ltd.

REV.	DATE	DESCRIPTION	BY	APVD
1	20250807	修正NORE資料內容，印刷圖面無變動	Killy	



NOTE:
1. Chemical Strengthened Glass.
2. Single Side AR Coating
   Average Transmittance
   (Measure bly both side)
   Transmission:95% ±1%
   Average Reflect (%)
   (Measure by single side
   Reflectance: <1.0%
3. AF(AS) Coating, Front Side
4. Printing:Refer to Artwork.
5. RoHS Compllant.
6. IQC INSPECTION DOCUMENT: QWI-022

設計驗證
工程課
2025 -10- 23
發行

3MD525FT010(M3344)

THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.: SC27810
	MATERIAL:		TREATMENT:	
DSGD by Killy	2025/08/07	PART NAME: AR GLASS PRINTING		
APVD by		PART NO.: ES SAMPLE		VER. 1
APVD NO.:	FILE NAME: SC27810.cdr	DIVA Laboratories, Ltd.		

測試報告
Test Report

號碼(No.): ETR25901630　　日期(Date): 15-Sep-2025　　

泰懋科技股份有限公司 (SBI MATERIAL TECHNOLOGY CO.)
新竹縣竹北市新興路328巷61弄82之1號 (NO.82-1, ALY. 61, LANE 328, XINXING RD., JHUBEI CITY, HSINCHU COUNTY 30253, 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 the applicant as)：

送樣廠商(Sample Submitted By)	:	泰懋科技股份有限公司 (SBI MATERIAL TECHNOLOGY CO.)
樣品名稱(Sample Name)	:	AGARAF GLASS
樣品型號(Style/Item No.)	:	GAR/GARF/GARS/GAG/GAGF/GAGARAF SERIES

==========

收件日(Sample Receiving Date)	:	08-Sep-2025
測試期間(Testing Period)	:	08-Sep-2025 to 15-Sep-2025

測試需求(Test Requested) :
(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結　論(Conclusion) :
(1) 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 72A1407C

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測試報告
Test Report

泰懋科技股份有限公司 (SBI MATERIAL TECHNOLOGY CO.)
新竹縣竹北市新興路328巷61弄82之1號 (NO.82-1, ALY. 61, LANE 328, XINXING RD., JHUBEI CITY, HSINCHU COUNTY 30253, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 透明玻璃 (TRANSPARENT GLASS)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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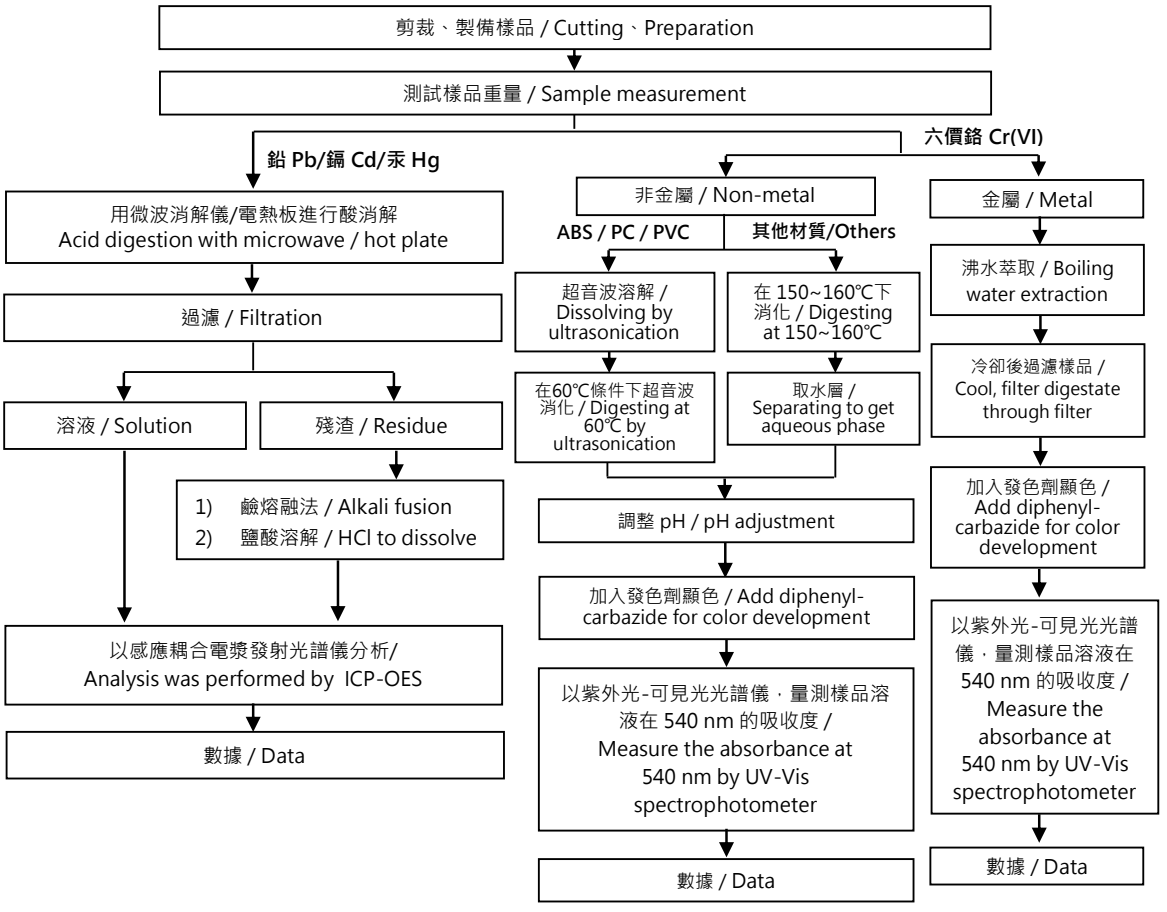
重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

These samples were dissolved totally by pre-conditioning method according to below flow chart.

（Cr^{6+} test method excluded）



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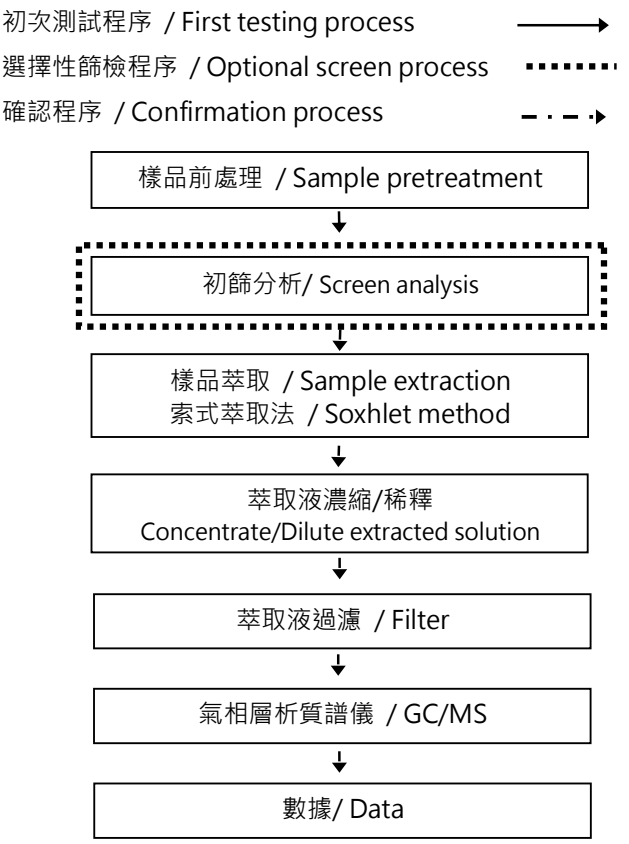
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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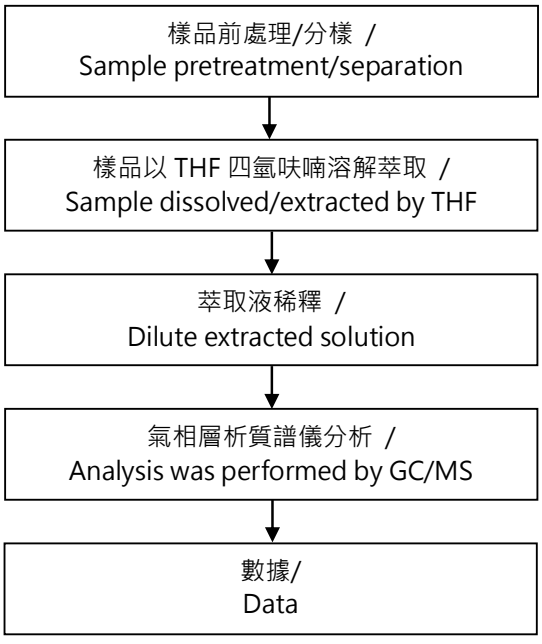
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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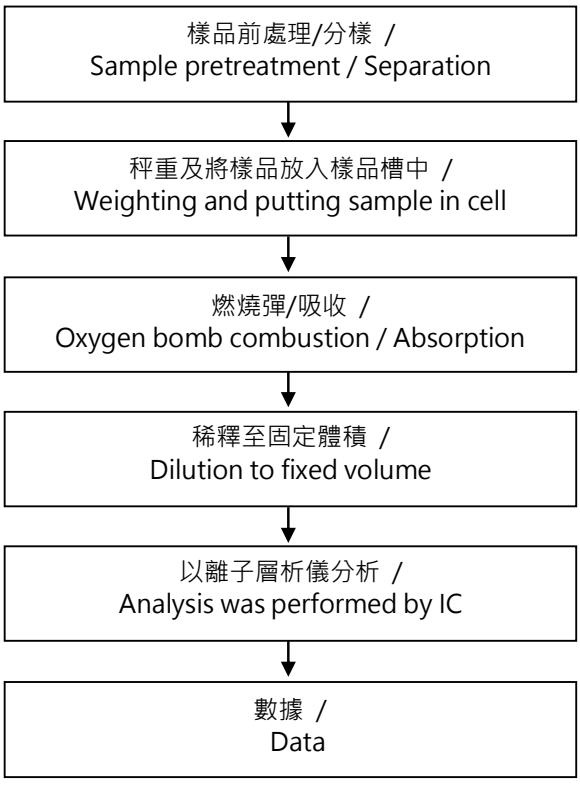
鹵素分析流程圖 / Analytical flow chart - Halogen



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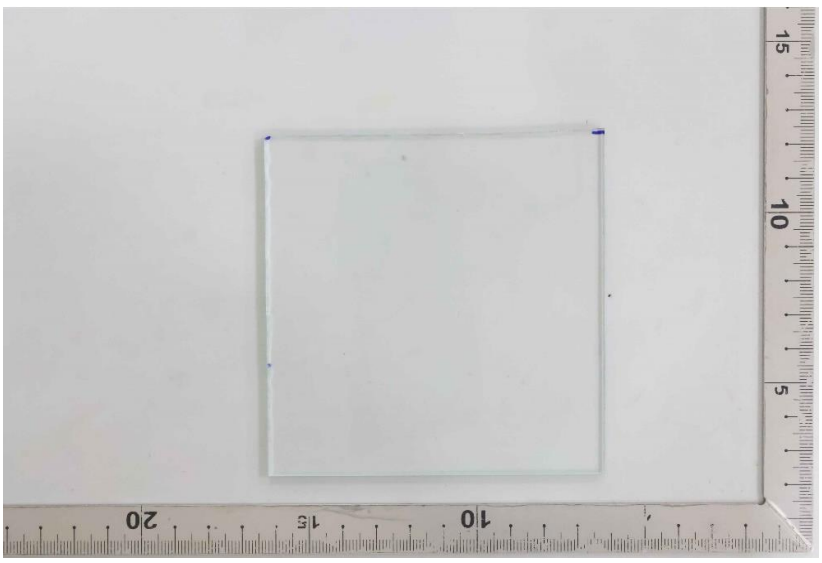
*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR25901630



** 報告結尾 (End of Report) **

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