

測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 1 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



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) : CORNING INCORPORATED
樣品名稱(Sample Description) : CORNING GORILLA® GLASS
樣品型號(Style/Item No.) : GORILLA® GLASS 2320
收件日期(Sample Receiving Date) : 2016/11/07
測試期間(Testing Period) : 2016/11/07 TO 2016/11/10

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 2 of 9

Test Report

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



測試結果(Test Results)

測試部位(PART NAME)No. 1 : 透明玻璃 (TRANSPARENT GLASS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg	參考BS EN 14582 (2007), 以離子層析儀分析. / With reference to BS EN 14582 (2007). Analysis was performed by IC.	50	n. d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	mg/kg		50	n. d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)	mg/kg	參考IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0)	mg/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1)	mg/kg		50	n. d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052 (1996), 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-AES.	2	n. d.
砷 / Arsenic (As)	mg/kg		2	n. d.
鈹 / Beryllium (Be)	mg/kg		2	n. d.
鎳 / Nickel (Ni)	mg/kg		2	n. d.
硒 / Selenium (Se)	mg/kg		2	n. d.
錫 / Tin (Sn)	mg/kg		2	1180

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 3 of 9

Test Report

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg		10	n. d.
單丁基錫 / Monobutyl Tin (MBT)	mg/kg	參考ISO 17353 (2004), 以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.	0.03	n. d.
二丁基錫 / Dibutyl Tin (DBT)	mg/kg		0.03	n. d.
三丁基錫 / Tributyl Tin (TBT)	mg/kg		0.03	n. d.
四丁基錫 / Tetrabutyltin (TeBT)	mg/kg		0.03	n. d.
單辛基錫 / MonoctylTin (MOT)	mg/kg		0.03	n. d.
二辛基錫 / Dioctyl Tin (DOT)	mg/kg		0.03	n. d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg		0.03	n. d.
二苯基錫 / Diphenyltin (DphT)	mg/kg		0.03	n. d.
單苯基錫 / Monophenyltin (MPhT)	mg/kg		0.03	n. d.
三環己基錫 / Tricyclohexyltin (TCyT)	mg/kg		0.03	n. d.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1 μ g/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 μ g/m².)

測試報告 Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 4 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

台北市中山區民生東路三段8號8樓

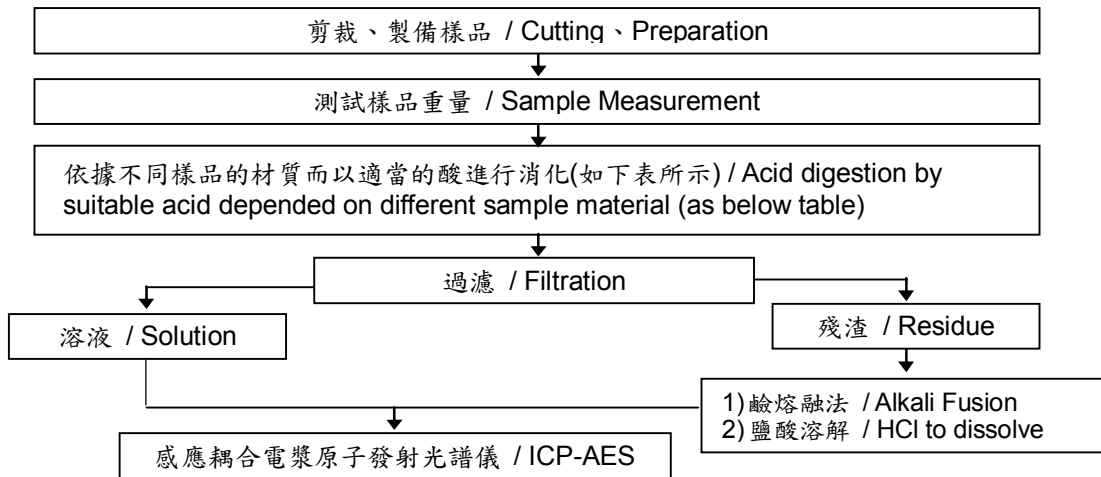
8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：王志瑋 / Technician: JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 5 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

台北市中山區民生東路三段8號8樓

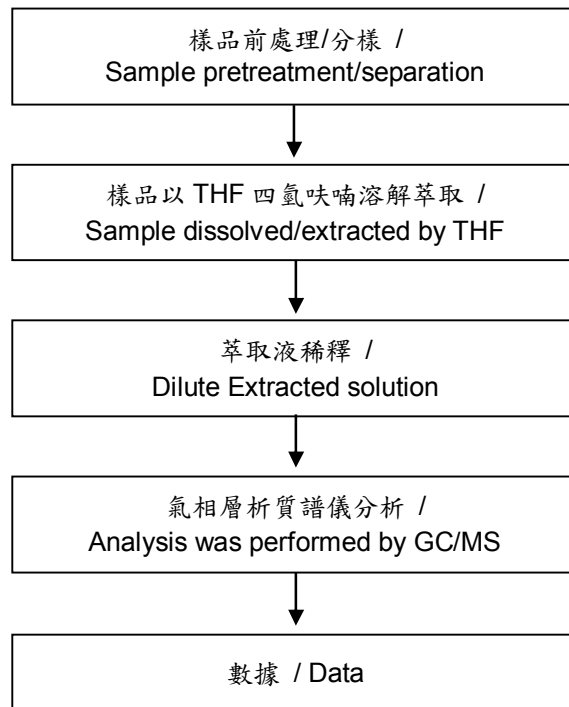
8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



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

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor : Troy Chang

【測試方法/Test method: IEC 62321-8】



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 6 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

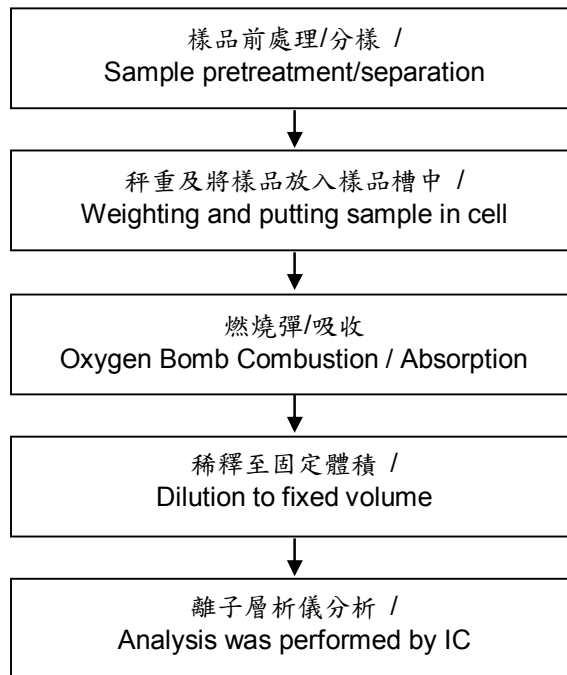
台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



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

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 7 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

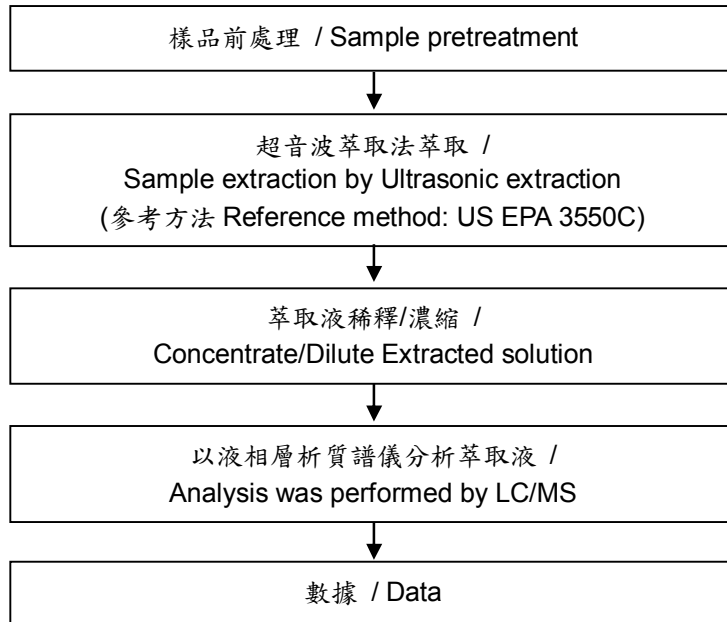
台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 8 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

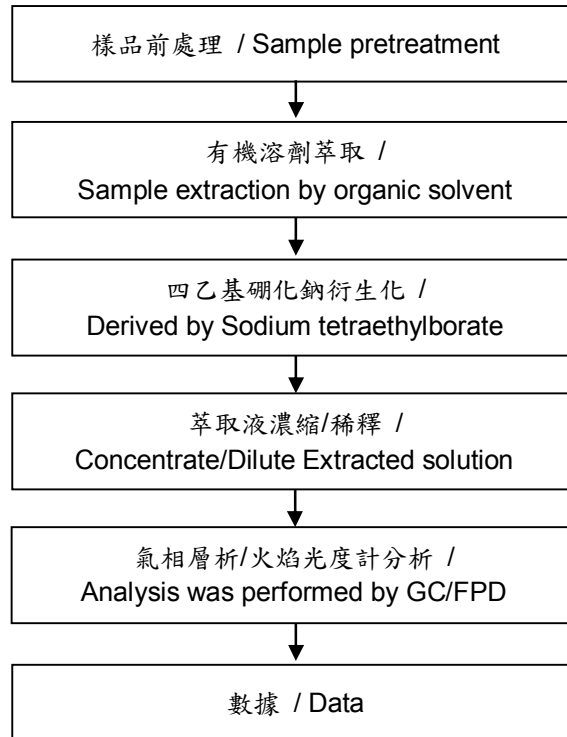
台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



有機錫分析流程圖 / Analytical flow chart - Organic-Tin

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

測試報告

Test Report

號碼(No.) : CE/2016/B1207A

日期(Date) : 2016/11/14

頁數(Page): 9 of 9

台灣康寧顯示玻璃股份有限公司

CORNING DISPLAY TECHNOLOGIES TAIWAN CO., LTD.

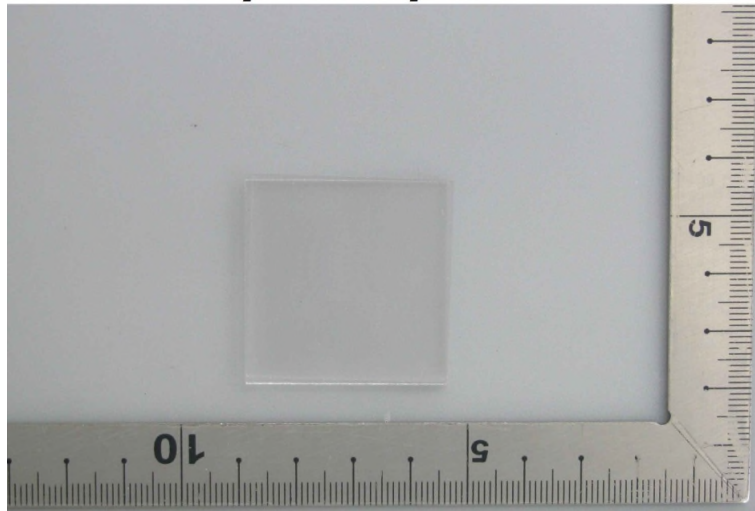
台北市中山區民生東路三段8號8樓

8F., NO. 8, SEC. 3, MINSHENG E. RD., ZHONGSHAN DIST., TAIPEI CITY 10480



* 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.)

CE/2016/B1207



** 報告結尾 (End of Report) **