

| 測試報告 | | : CE/2016/12210 | 日期(Date) : 2016/01/18 | 頁數(Page): 1 of 9 |
|--|------------|--|--|--|
| Test Report ^{號碼(N} | 0.) | . CE/ 2010/ 12210 | u m(Date) . 2010/01/10 | 只数(lage). 1 01 5 |
| 台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. 1 | RD., | YANG-MEI DISTRICT, | TAOYUAN CITY 326, TAIWAN (| R. O. C.) |
| 以下測試樣品係由申請廠商所提供及 behalf of the applicant as): 送樣廠商(Sample Submitted By) | <u>確</u> 認 | _ | ample(s) was/were submitte 製造股份有限公司 (3M TAIWAN I | |
| 樣品名稱(Sample Description) | : | | TAPE WITH 100MP, 200MP, 220, | |
| 樣品型號(Style/Item No.) | : | 7955MP, 7962MP, 9676, 9502, 9505, 9495MP, 9495MPF, 7965MP, 7945MP, 7 9059MP, 9061MP, 7 | F9473PC, 467MP, 468MP, 467M 965MP, 9172MP, 9172PT, 9185M 9502HL, 9505HL, F9752PC, F- 9495FL, 9795, 9799, 7952MP, 956MP, 7957MP, 7959MP, 7961M 993MP, 7995MP, 7997MP, 82210 MC, 467MCF, 468MC, 468MCF | MP, 9188, 9667MP, 9668MP, -9755PC, 9492MP, 9492MPR, 7962MP, 7953MP, 7955MP, MP, 9045MP, 9056MP, 9057MP, |
| 收件日期(Sample Receiving Date) | : | 2016/01/12 | | |

測試期間(Testing Period) : 2016/01/12 TO 2016/01/18

測試需求(Test Requested):

(1) 依據客戶指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鍋、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.)

(2) 其他測試項目請見下一頁 . (Please refer to next pages for the other item(s).)

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).



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/Terms-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 Test Report 號碼(No.): CE/2016/12210 日期

日期(Date) : 2016/01/18

頁數(Page): 2 of 9

台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 透明膠 (不含離型紙) (TRANSPARENT ADHESIVE (EXCLUDING THE RELEASE PAPER))

| 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 |
| 鎘 / Cadmium (Cd) | mg/kg | 参考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n. d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n. d. |
| 汞 / Mercury (Hg) | mg/kg | 参考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n. d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 参考IEC 62321: 2008 - Annex C方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 - Annex C and performed by UV-VIS. | 2 | n. d. |
| 鹵素 / Halogen | | | | |
| 鹵素(氟)/ Halogen-Fluorine(F) (CAS No.: 14762-94-8) | mg/kg | | 50 | n. d. |
| 鹵素(氯)/ Halogen-Chlorine(C1) (CAS No.: 22537-15-1) | mg/kg | 參考BS EN 14582:2007,以離子層析儀 分析./ With reference to BS EN | 50 | 142 |
| 鹵素(溴)/ Halogen-Bromine(Br) (CAS No.: 10097-32-2) | mg/kg | 14582:2007. Analysis was performed by IC. | 50 | n. d. |
| 鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8) | mg/kg | | 50 | n. d. |

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/Terms-Documentaspx. 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/2016/12210

日期(Date) : 2016/01/18

頁數(Page): 3 of 9

台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號

NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 | 結果 (Result) |
|----------------------------------|--------------|---|-------------|-------------|
| | | (me thou) | (MDL) | No. 1 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | | _ | n. d. |
| 一溴聯苯 / Monobromobiphenyl | 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 | 1 | 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 | 參考IEC 62321-6: 2015方法,以氣相 | 5 | n. d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | 層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS. | 5 | n. d. |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | | - | n. d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | 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 | 1 | 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. |



測試報告

號碼(No.) : CE/2016/12210

日期(Date) : 2016/01/18

頁數(Page): 4 of 9

Test Report 台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD.

桃園市楊梅區中山南路800巷66號

NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

| 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 |
|--|--------------|---|----------------------|--------------------|
| 鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5) | mg/kg | 參考IEC 62321-8 (111/321/CD),以氣 相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS. | 50 | n. d. |
| 鄰苯二甲酸二丁酯 / DBP(Dibutyl phthalate)(CAS No.: 84-74-2) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸丁苯甲酯 / BBP(Butyl Benzyl phthalate)(CAS No.: 85-68-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl)phthalate)(CAS No.: 117-81-7) | 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 | | 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. |

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)
- 4. "-" = Not Regulated (無規格值)





Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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/Terms-Documentaspx. 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/2016/12210 日期(Date): 2016/01/18

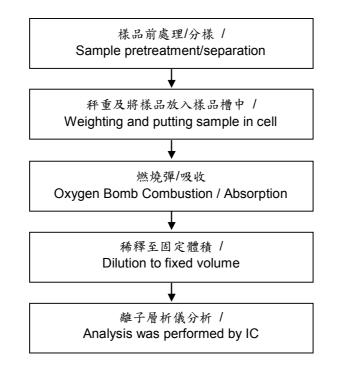
頁數(Page): 6 of 9

台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

鹵素分析流程圖 / Analytical flow chart of halogen content

■ 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen

■ 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang





測試報告 Test Report ^{読碼(No.)}: CE/2016/12210 日期(Date): 2016/01/18

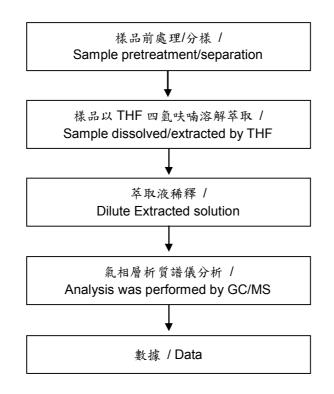
頁數(Page): 7 of 9

台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 测試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang

【测試方法/Test method: IEC 62321-8】





測試報告 Test Report ^{號碼(No.)}: CE/2016/12210

日期(Date): 2016/01/18

頁數(Page): 8 of 9

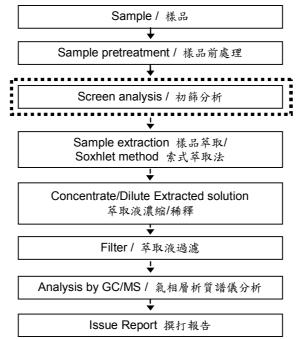
台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang
- 初次測試程序 / First testing process ———→
- 選擇性篩檢程序 / Optional screen process •••••••





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/Terms-Documentaspx. 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/2016/12210 日期(Date): 2016/01/18 **Test Report**

頁數(Page): 9 of 9

台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

> * 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/2016/12210



** 報告結尾 (End of Report) **