

| <b>測試報告</b>  |            | : CE/2016/12210  | 日期(Date) : 2016/01/18  | 頁數(Page): 1 of 9   |
|--|------------|--|--|--|
| Test Report <sup>號碼(N</sup>  | 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<br>3M TAIWAN LTD.<br>桃園市楊梅區中山南路800巷66號<br>NO. 66, LANE 800, CHUNG-SHAN S. 1 | RD.,       | YANG-MEI DISTRICT,   | TAOYUAN CITY 326, TAIWAN (   | R. O. C.)  |
| <b>以下測試樣品係由申請廠商所提供及<br/>behalf of the applicant as):</b><br>送樣廠商(Sample Submitted By)        | <u>確</u> 認 | _  | ample(s) was/were submitte<br>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,<br>9676, 9502, 9505,<br>9495MP, 9495MPF,<br>7965MP, 7945MP, 7<br>9059MP, 9061MP, 7 | F9473PC, 467MP, 468MP, 467M<br>965MP, 9172MP, 9172PT, 9185M<br>9502HL, 9505HL, F9752PC, F-<br>9495FL, 9795, 9799, 7952MP,<br>956MP, 7957MP, 7959MP, 7961M<br>993MP, 7995MP, 7997MP, 82210<br>MC, 467MCF, 468MC, 468MCF | MP, 9188, 9667MP, 9668MP,<br>-9755PC, 9492MP, 9492MPR,<br>7962MP, 7953MP, 7955MP,<br>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).



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

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

| 測試項目<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>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<br>to IEC 62321-6: 2015 and performed<br>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.       |



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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<br>(Test Items)   | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果(Result)<br>No.1 |
|--|--------------|---|----------------------|--------------------|
| 鄰苯二甲酸二異丁酯 / DIBP (Di-<br>isobutyl phthalate) (CAS No.: 84-69-<br>5)                | mg/kg        | 參考IEC 62321-8 (111/321/CD),以氣<br>相層析儀/質譜儀檢測之. / With<br>reference to IEC 62321-8<br>(111/321/CD). Analysis was<br>performed by GC/MS. | 50                   | n. d.              |
| 鄰苯二甲酸二丁酯 / DBP(Dibutyl<br>phthalate)(CAS No.: 84-74-2)                             | mg/kg        |   | 50                   | n. d.              |
| 鄰苯二甲酸丁苯甲酯 / BBP(Butyl<br>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<br>(Di-(2-ethylhexyl)phthalate)(CAS<br>No.: 117-81-7)       | mg/kg        |   | 50                   | n. d.              |
| 鄰苯二甲酸二正辛酯 / DNOP(Di-n-<br>octyl phthalate)(CAS No.: 117-84-0)                      | mg/kg        |   | 50                   | n. d.              |
| 鄰苯二甲酸二異壬酯 / DINP (Di-<br>isononyl phthalate) (CAS No.: 28553-<br>12-0; 68515-48-0) | mg/kg        |   | 50                   | n. d.              |
| 鄰苯二甲酸二異癸酯 / DIDP(Di-<br>isodecyl phthalate)(CAS No.: 26761-<br>40-0; 68515-49-1)   | mg/kg        |   | 50                   | n. d.              |

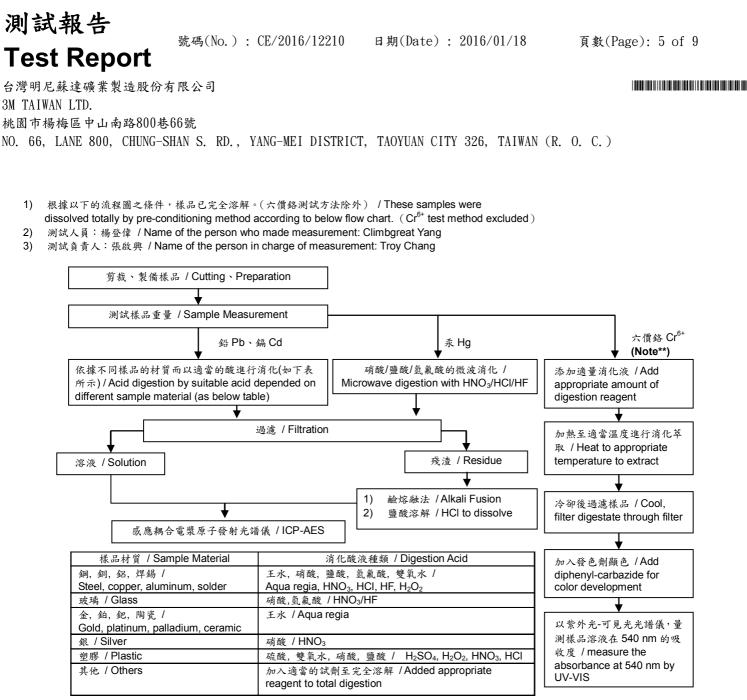
#### 備註(Note):

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.

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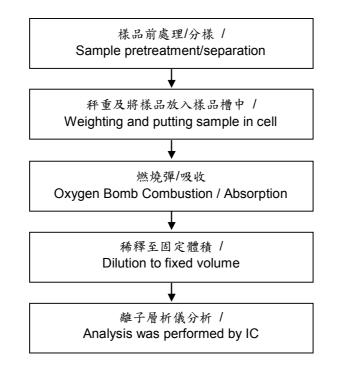
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#### 鹵素分析流程圖 / Analytical flow chart of halogen content

■ 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





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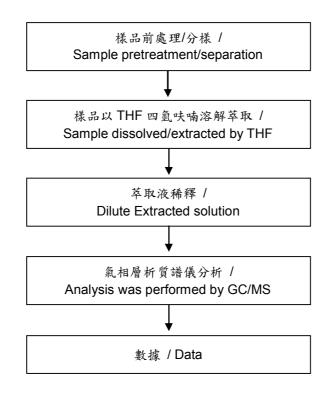
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 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】





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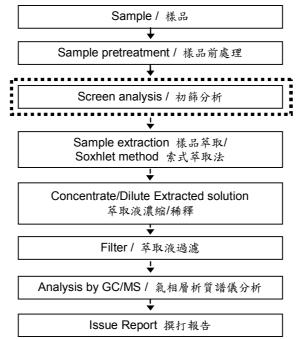
台灣明尼蘇達礦業製造股份有限公司 3M TAIWAN LTD. 桃園市楊梅區中山南路800巷66號 NO. 66, LANE 800, CHUNG-SHAN S. RD., YANG-MEI DISTRICT, TAOYUAN CITY 326, TAIWAN (R. O. C.)

#### 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 •••••••





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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.)

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\*\* 報告結尾 (End of Report) \*\*