

MAYLOON ELECTRONIC CO., LTD., NO.143, LANE 323, TA-LIAO ROAD, TA-LIAO HSIANG, KAOHSIUNG HSIEN, TAIWAN. R.O.C. 報告號碼 :KA/2007/A2022

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以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下:

The following sample(s) was/were submitted and identified by/on behalf of the client as:

樣品名稱/Sample

: LEAD FREE THICK FILM CHIP RESISTORS

樣品型號/Style/Item No.

: CR 1206

樣品顏色/Color

: 灰色+黑色/GREY+BLACK

收件日期 (Sample Received)

: 2007/10/22

測試期間 (Testing Period)

2007/10/22 TO 2007/10/29

測試結果 / Test Result(s) : - 請見下一頁 / Please see the next page(s) -

Katherine Ho / Supervisor

Signed for and on behalf of

SGS Taiwan Limited

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^{TW}5727084



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測試結果 / Test Result(s)

測試部位 NO.1/PART NAME NO.1

: LEAD FREE THICK FILM CHIP RESISTORS

| 測試項目 Test Item(s) | 單位 Unit | 測試方法 Method | 方法偵測 極限値 MDL | 結果 Result No. 1 |
|---|------------|--|--------------------|-----------------------|
| 六價络 (Alkaline extraction) / Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | 参考 IEC 62321 Ed. 1 (111/54/CDV)方法, 用UV-VIS檢測 六價鉻含量。 / With reference | 2 | n.d. |
| 鎬 / Cadmium (Cd) | mg/kg | 用感應藕合電漿原子發射光譜儀 (ICP-AES)檢測鎬含量./ Determination of Cadmium by ICP-AES. | 2 | n.d. |
| 汞/Mercury (Hg) | mg/kg | 参考IEC 62321 Ed. 1 (111/54/CDV)方法,用感應藕合電 漿原子發射光譜儀(ICP-AES)檢測 汞含量./With reference to IEC 62321, ED.1 (111/54/CDV). | 2 | n.d. |
| 鉛/Lead (Pb) | mg/kg | 用感應藕合電漿原子發射光譜儀 (ICP-AES)檢測鉛含量. / Determination of Lead by ICP- AES. | 2 | 603 |

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|------------------------------|------------|---|---|--------------|
| 測試項目 Test Item(s) | 單位 Unit | 測試方法 Method | 方法偵測 極限値 | 結果 Result |
| 多溴聯苯總和(PBBs)/Sum of PBBs | mg/kg | 參考IEC 62321 Ed. 1 (111/54/CDV)方法,以氣相層析儀 /質譜儀(GC/MS)檢測多溴聯苯和多 溴聯苯醚含量./With reference to IEC 62321, ED.1 (111/54/CDV). Determination of PBBs and PBDEs by GC/MS. | MDL | No. 1 |
| 一溴聯苯 / Monobromobiphenyl | | | 5 | n.d. |
| 二溴聯苯 / Dibromobiphenyl | | | 5 | n.d. |
| 三溴聯苯 / Tribromobiphenyl | | | 5 | n.d. |
| 四溴聯苯 / Tetrabromobiphenyl | | | 5 | n.d. |
| 五溴聯苯 / Pentabromobiphenyl | | | 5 | n.d. |
| 六溴聯苯 / Hexabromobiphenyl | | | 5 | n.d. |
| 七溴聯苯 / Heptabromobiphenyl | | | 5 | n.d. |
| 八溴聯苯 / Octabromobiphenyl | | | 5 | n.d. |
| 九溴聯苯 / Nonabromobiphenyl | | | 5 | n.d. |
| 十溴聯苯 / Decabromobiphenyl | | | 5 | n.d. |

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| 測試項目 Test Item(s) | 單位 Unit | 測試方法 Method | 方法偵測 極限値 MDL | 結果 Result No. 1 |
|---|------------|---|--------------------|-----------------------|
| 多溴聯苯醚總和(PBDEs)(一至九溴) (備註 4) / Sum of PBDEs (Mono to Nona)(Note 4) | | | - | n.d. |
| 一溴聯苯醚 / Monobromobiphenyl ether | | | 5 | n.d. |
| 二溴聯苯醚 / | 7 | | 5 | n.d. |
| Dibromobiphenyl ether | | | | |
| 三溴聯苯醚 / | | | 5 | n.d. |
| Tribromobiphenyl ether | _ | 参考IEC 62321 Ed. 1 | | |
| 四溴聯苯醚 / | | 5 | 5 | n.d. |
| Tetrabromobiphenyl ether | _ | /質譜儀(GC/MS)檢測多溴聯苯和多 | | |
| 五溴聯苯醚 / | mg/kg | 澳聯苯醚含量./With reference to IEC 62321, ED.1 (111/54/CDV). Determination of PBBs and PBDEs by GC/MS. | 5 | n.d. |
| Pentabromobiphenyl ether | | | | |
| 六溴聯苯醚 / | | | 5 | n.d. |
| Hexabromobiphenyl ether | - | | | |
| 七溴聯苯醚 / | | | 5 | n.d. |
| Heptabromobiphenyl ether | _ | | | |
| 八溴聯苯醚 / |] | | 5 | n.d. |
| Octabromobiphenyl ether | | | | |
| 九溴聯苯醚 / | | | 5 | n.d. |
| Nonabromobiphenyl ether | | | | |
| 十溴聯苯醚 / | | | 5 | n.d. |
| Decabromobiphenyl ether | | | | |
| 多溴聯苯醚總和(PBDEs)(一至十溴) / | | | - | n.d. |
| Sum of PBDEs (Mono to Deca) | | | | |

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| | | | A DEGLETA BEST AND LINETE LINES BELLA SERVI AGES LINES LINES LINES BETTE ATTENDED TO THE SERVE THE SERVI | |
|---|------------|---|--|-----------------------|
| 測試項目 Test Item(s) | 單位 Unit | 測試方法 Method | 方法偵測 極限値 MDL | 結果 Result No. 1 |
| 鹵素 (氟,氟,溴,碘)含量 | | 鹵素定量分析 | | |
| 鹵素(氣)(CAS NO. 007782-50-5) / Halogen-Chlorine (C1) (CAS No:007782-50-5) | mg/kg | 参考BS EN 14582附錄A,以離子層 析儀分析氣,氣,溴,碘含量。/ With reference to BS EN 14582 | 50 | n.d. |
| 鹵素(氟)(CAS NO. 007782-41-4)/ Halogen-Fluorine (F) (CAS No:007782-41-4) | mg/kg | 参考BS EN 14582附錄A,以離子層 析儀分析氣,氣,溴,碘含量。/ With reference to BS EN 14582 | 50 | n.d. |
| 鹵素(溴)(CAS NO. 007726-95-6) / Halogen-Bromine (Br) (CAS No:007726-95-6) | mg/kg | 参考BS EN 14582附錄A,以離子層 析儀分析氣,氣,溴,碘含量。/ With reference to BS EN 14582 | 50 | n.d. |
| 鹵素(碘)(CAS NO. 007553-56-2) / Halogen-Iodine (I) (CAS No:007553-56-2) | mg/kg | 参考BS EN 14582附錄A,以離子層 析儀分析氣,氣,溴,碘含量。/ With reference to BS EN 14582 | 50 | n.d. |

備註:1. mg/kg = ppm

- 2. n.d. = Not Detected / 未檢出
- 3. MDL = Method Detection Limit / 方法偵測極限値
- 4. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC内容,通過解除 高分子材質中十溴聯苯醚之使用限制。 /

According to 2005/717/EC DecaBDE is exempt.

- 5. " " = Not Regulated / 無規格值
- 6. "---" = Not Conducted / 未測項目

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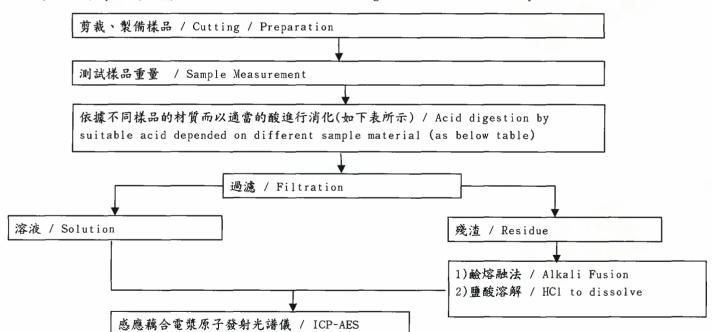
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1)根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

2)測試人員:李宏明/ Name of the person who made measurement: Hungming Li

3)測試負責人:黄建智/ Name of the person in charge of measurement: George Huang

鎬、鉛的消化流程圖 / Method 1: Flow Chart of Digestion for Cd、Pb analysis



銅,銅,鋁,焊錫 / Steel, copper, aluminum, solder 王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO3, HC1, HF, H2O2

玻璃 / Glass 硝酸,氫氟酸 / HNO3/HF

金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic 王水 / Aqua regia 銀 / Silver 硝酸 / HNO3

塑膠 / Plastic 硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1

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