

測試報告

Test Report

號碼(No.): KA/2009/C0881 日期(Date): 2010/1/5 頁數(Page): 1 of 9

國巨股份有限公司

YAGEO CORPORATION (YAGEO/ PHYCOMP/ COMPOSTAR BRAND) 231-45 台北縣新店市寶橋路233-1號3樓

3F, 233-1, BAOQIAO RD., XINDIEN, TAIPEI COUNTY 23145, TAIWAN

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 samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

: GENERAL PURPOSE CHIP RESISTORS

: RC1206 SERIES

: 2009/12/11

: 2009/12/11 TO 2010/1/5

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang / Asst. Manager/ Signed for and on behalf of SGS Taiwan Limited

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測試結果(Test Results)

測試部位(PART NAME) NO.1

銀色/黑色/白色 GENERAL PURPOSE CHIP RESISTORS (SILVER/BLACK/WHITE GENERAL PURPOSE CHIP RESISTORS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合 電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鋁 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合 電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	436
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應藕合 電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	参考IEC 62321: 2008方法,用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯總和 / Sum of PBBs		参考IEC 62321: 2008方法,以氣相層析	-	n.d.
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	mg/kg	儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by	5	n.d.
六溴聯苯 / Hexabromobiphenyl		GC/MS.	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.
多溴聯苯醚總和 / Sum of PBDEs		參考IEC 62321: 2008方法,以氣相層析 儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鋇 / Barium (Ba)	mg/kg	参考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測鋇含量. / With reference to US EPA Method 3052 for Barium Content. Analysis was performed by ICP-AES.	2	79.3
鈷 / Cobalt (Co)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測銛含量. / With reference to US EPA Method 3052 for Cobalt Content. Analysis was performed by ICP-AES.	2	9.19
鉻 / Chromium (Cr)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測鉻含量. / With reference to US EPA Method 3050B for Chromium Content. Analysis was performed by ICP-AES.	2	996
銅 / Copper (Cu)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測銅含量. / With reference to US EPA Method 3052 for Copper Content. Analysis was performed by ICP-AES.	2	582
鎂 / Magnesium (Mg)	mg/kg	参考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測鎂含量. / With reference to US EPA Method 3052 for Magnesium Content. Analysis was performed by ICP-AES.	2	48.6

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎳 / Nickel (Ni)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測鎳含量. / With reference to US EPA Method 3052 for Nickel Content. Analysis was performed by ICP-AES.	2	24700
鈀 / Palladium (Pd)	mg/kg	參考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測鈀含量. / With reference to US EPA 3052 for Palladium Content. Analysis was performed by ICP-AES.	2	968
銀 / Silver (Ag)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發射光譜儀檢測銀含量./With reference to US EPA Method 3052 for Silver Content. Analysis was performed by ICP-AES.	2	8840
錫 / Tin (Sn)	mg/kg	參考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測錫含量. / With reference to US EPA 3052 for Tin Content. Analysis was performed by ICP-AES.	2	11400

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)

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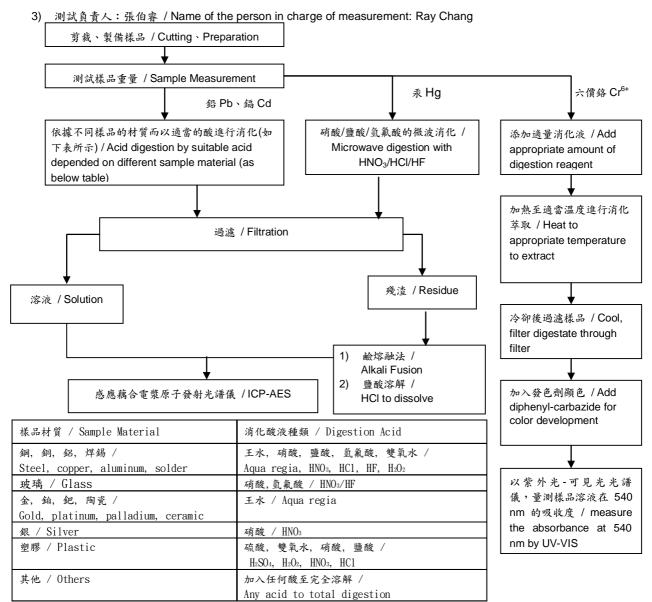
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員: 李宏明 / Name of the person who made measurement: Hungming Li



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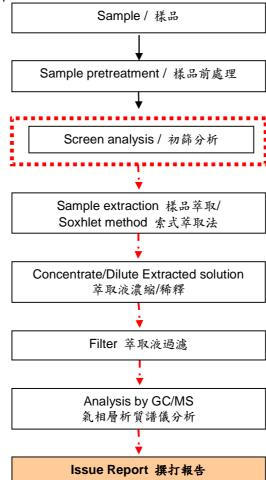
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

初次測試程序 / First testing process →

選擇性篩檢程序 / Optional screen process

確認程序 / Confirmation process - · - ▶



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國巨股份有限公司

YAGEO CORPORATION (YAGEO/ PHYCOMP/ COMPOSTAR BRAND)

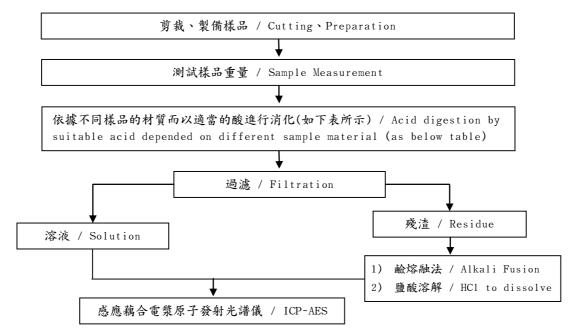
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:李宏明 / Name of the person who made measurement: Hungming Li
- 3) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray 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, 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
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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** 報告結尾(End of Report) **

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