**Test Report** 美商伊士曼化學有限公司台灣分公司 EASTMAN CHEMICAL LTD., TAIWAN BRANCH

台北市北投區北投路二段13號8樓之1 8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, 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) : EASTMAN (TM) COPOLYESTER 樣品型號(Style/Item No.) : Z6018 收件日期(Sample Receiving Date) : 2009/03/04 測試期間(Testing Period) : 2009/03/04 TO 2009/03/11

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測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

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Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei

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測試報告

美商伊士曼化學有限公司台灣分公司

EASTMAN CHEMICAL LTD., TAIWAN BRANCH 台北市北投區北投路二段13號8樓之1 8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN

### <u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1

: 混測透明色塑膠粒 (6款) (MIXED TRANSPARENT PLASTIC PELLETS (6 TYPES))

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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
鎬 / 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.
鉛 / 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	n.d.
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.
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析儀 分析氟,氯,溴,碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, C1, Br, I content.		
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析氣含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.

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EASTMAN CHEMICAL LTD., TAIWAN BRANCH

台北市北投區北投路二段13號8樓之1

8F-1, NO. 13, SEC. 2, PEI TOU ROAD, PEI TOU 112 TAIPEI, TAIWAN

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
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	参考BS EN 14582:2007, 以離子層析儀 分析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl		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.	5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		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.
多溴聯苯醚總和 / Sum of PBDEs			-	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			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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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 (無規格値)
- 5. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個别單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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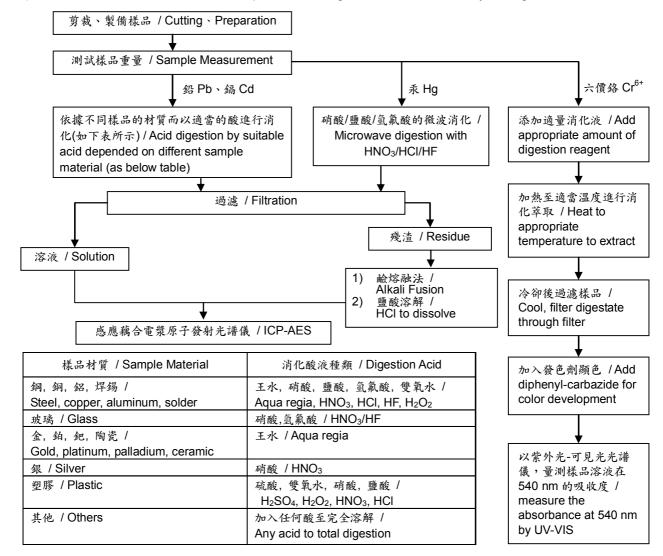


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1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價鉻測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. ( $Cr^{6+}$  test method excluded)

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- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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**Test Report** 

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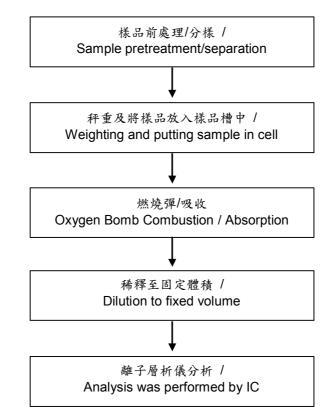
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## 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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# 測試報告 Test Report

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

Sample / 樣品

1) 测試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

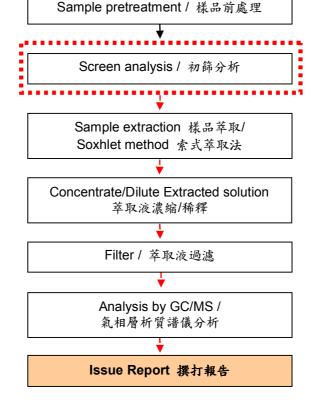
2) 测試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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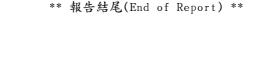


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