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# 試驗報告

號碼(No.): KA/2017/10863 日期(Date): 2017/01/19

### Test Report

李長榮化學工業股份有限公司 LCY CHEMICAL CORP. 高雄市大社區經建路2號 NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSIUNG CITY, 81567 TAIWAN, R.O.C.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)	:	POLYPROPYLENE HOMOPLYMER
樣品型號(Style/Item No.)	:	PT181, 6733, PT100, PT101N, PD402, PT511, PC366-3, PC366-3F, PC366-4,
		PC366-5, PC366-5F, 6524, 6331-11, 6331, 6331F, 6424, PD943, PT331M,
		6231-20, PC932, PT231, PT231M, HP600S, HP560P, HP561R, HP563S, 6560,
		657H, 6570
收件日期(Sample Receiving Date)	:	2017/01/13
測試期間(Testing Period)	:	2017/01/13 TO 2017/01/19
送樣廠商(Sample Submitted By)	:	李長榮化學工業股份有限公司 (LCY CHEMICAL CORP.)

\_\_\_\_\_

#### 測試需求(Test Requested)

- (1) 依據客户指定,參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、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).)

:

:

#### 測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

#### 結 論(Conclusion)

(1) 根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚,DBP,BBP,DEHP,DIBP的測試結果符合RoHS指令暨 (EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)



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#### <u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 本色 POLYPROPYLENE HOMOPLYMER (NATURE POLYPROPYLENE HOMOPLYMER)

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	<b>限值</b> (Limit)
鎬 / Cadmium (Cd)	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.	100
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.	1000
汞 / Mercury (Hg)	mg/kg	參考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.	1000
六價络 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢 測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000

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NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSIUNG CITY, 81567 TAIWAN, R.O.C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	<b>限值</b> (Limit)
			(MDL)	No.1	
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl		參考IEC 62321-6: 2015方法, 以氣相層析 /質譜儀檢測. / With reference to IEC	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		62321–6: 2015 and performed by GC/MS.	5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
入溴聯苯 / 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.	1000
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		參考IEC 62321-6: 2015方法,以氣相層析	5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	/質譜儀檢測. / With reference to IEC	5	n.d.	_
六溴聯苯醚 / Hexabromodiphenyl ether	-	62321–6: 2015 and performed by GC/MS.	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.	-
六溴環十二烷及所有主要被辨列出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層析/ 質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	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)	<b>結果</b> (Result) No.1	<b>限值</b> (Limit)
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.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
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.	1000
鹵素 / Halogen					
鹵素(氯)/ Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素 (氣) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)			50	n.d.	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)			50	n.d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8)			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)

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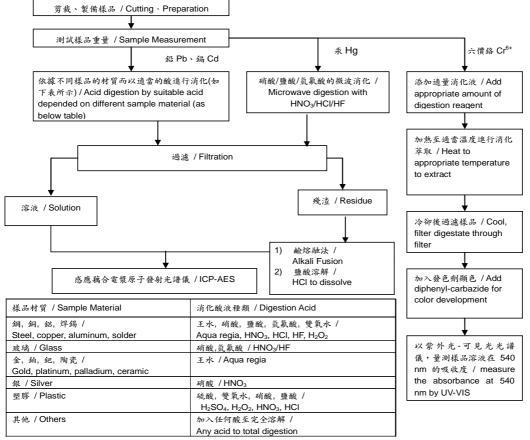
號碼(No.): KA/2017/10863 日期(Date): 2017/01/19

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NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSIUNG CITY, 81567 TAIWAN, R.O.C.

- 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<sup>6+</sup> test method excluded)
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu
- \_\_测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang 3)



Note\*\*: (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  $90{\sim}95^\circ\!\mathbb{C}{\,}.$ 

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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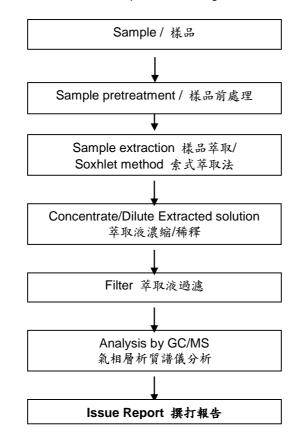
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#### 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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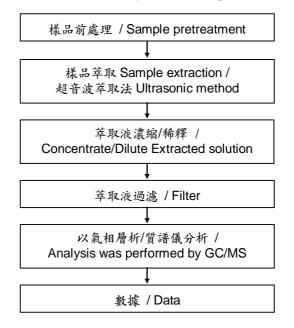
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#### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

1) 測試人員:陳威錚/ Name of the person who made measurement: Dorothy Chen 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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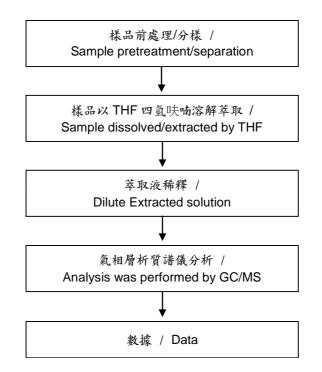
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

#### 【测試方法/Test method: IEC 62321-8】



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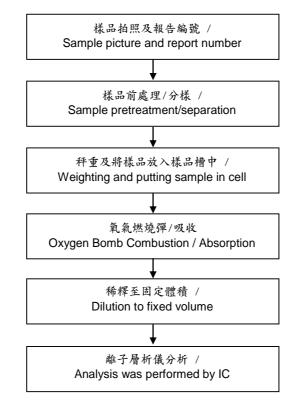
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#### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 测試人員:洪秀真/Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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# 試驗報告

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### Test Report

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### \* 照片中如有箭頭標示,則表示爲實際檢測之樣品/部位. \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)



\*\* 報告結尾 (End of Report) \*\*

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