



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, KAOHSUING CITY, 81567 TAIWAN, R.O.C.

以下測試樣品係由客戶送樣,且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

送樣廠商(Sample Submitted By) : 李長榮化學工業股份有限公司 (LCY CHEMICAL CORP.)

樣品名稱(Sample Description) : POLYPROPYLENE HOMOPOLYMER

: PT181, 6733, PT100, PT101N, PD402, PT511, PC366-3, PC366-3F, PC366-4, 樣品型號(Style/Item No.)

> PC366-5, PC366-5F, 6524, 6331-11, 6331, 6331F, 6424, PD943, PT331M, 6231-20, PC932, PT231, PT231M, HP600S, HP560P, HP561R, HP563S, 6560,

657H, 6570, 6331-8, 6864, 6871, 6211, 6001, 6002, 6101, 6102

收件日期(Sample Receiving Date) 2019/01/09

測試期間(Testing Period) 2019/01/09 to 2019/01/15

測試需求(Test Requested)

(1) 依據客戶指定,參考RoHS 2011/65/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(s).)

(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) 根據客戶所提供的樣品,其編、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 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求. (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

報告簽署人/張伯睿/博士/技術經

Ray Chang, Ph.D./Manager -Teigh Signed for and on behalf of

SGS Taiwan Limited

化學實驗室-高雄/Chemical Laborator

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頁數(Page): 1 of 10



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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 半透明塑膠粒(TRANSLUCENT PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1	法規 限值 (Limit)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013,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,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,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
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321-7-2:2017,以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	1000
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	參考IEC 62321-6:2015,以氣相層析/質譜	5	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg	儀檢測. / With reference to IEC 62321-	5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	6:2015 and performed by GC/MS.	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		5	n. d.	_
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	-

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頁數(Page): 2 of 10



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1	法規 限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		_	n. d.	1000
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		5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	參考IEC 62321-6:2015,以氣相層析/質譜	5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	儀檢測. / With reference to IEC 62321-	5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	6:2015 and performed by GC/MS.	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.	_
鄰苯二甲酸二異丁酯 / DIBP (Di-	mg/kg		50	n. d.	1000
isobutyl phthalate) (CAS No.: 84-69-5)					
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	参考IEC 62321-8:2017,以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	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
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321: 2008,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008. Analysis was performed by GC/MS.	5	n. d.	-

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頁數(Page): 3 of 10



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1	法規 限值 (Limit)
鹵素 / Halogen					
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2016,以離子層析儀檢 測. / With reference to BS EN	50	n. d.	ı
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg		50	n. d.	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2016. Analysis was performed by IC.	50	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.	-

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出)
- 4. "-" = Not Regulated (無規格值)

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頁數(Page): 4 of 10



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<u>重金屬流程圖 / Analytical flow chart of Heavy Metal</u>

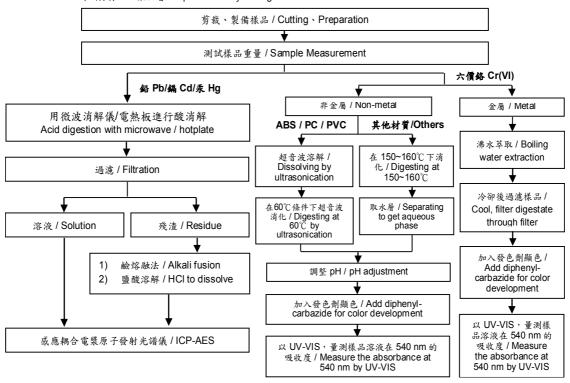
號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

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)

測試人員:劉俊宏/Technician: Jony Liu

測試負責人:張伯睿/ Supervisor: Ray Chang



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頁數(Page): 5 of 10



Test Report

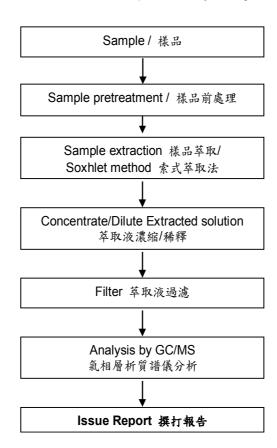
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NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSUING CITY, 81567 TAIWAN, R.O.C.

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

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

測試人員: 陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang



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頁數(Page): 6 of 10



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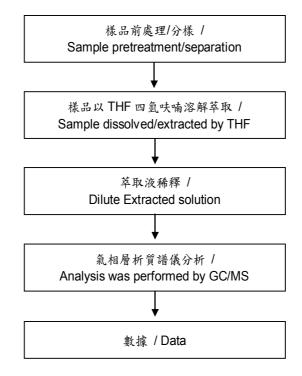
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

測試人員: 陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang

【測試方法/Test method: IEC 62321-8】



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頁數(Page): 7 of 10



試驗報告 **Test Report**

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

頁數(Page): 8 of 10

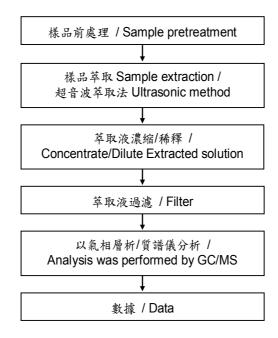
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

測試人員:陳威錚 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang



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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

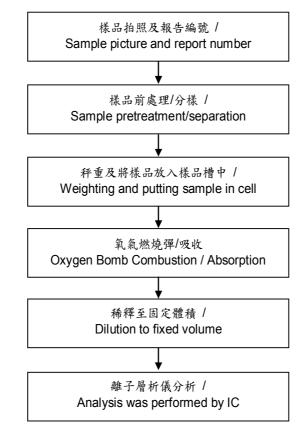
NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSUING CITY, 81567 TAIWAN, R.O.C.

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

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15

測試人員:洪秀真/Technician: Jean Hung

測試負責人:張伯睿 / Supervisor: Ray Chang



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頁數(Page): 9 of 10



Test Report

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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.)

KA/2019/10443

號碼(No.): KA/2019/10443 日期(Date): 2019/01/15



** 報告結尾(End of Report) **

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頁數(Page): 10 of 10