

試驗報告

頁數 (Page): 1 of 10 號碼(No.): KA/2018/11007 日期(Date): 2018/01/22

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 RANDOM COPOLYMER

樣品型號(Style/Item No.)

: 8001, 8002, ST611, ST611M, ST611K, ST612, ST866, ST866M, ST861,

STM866, ST868M, ST868K, ST869K, ST860K, ST757M, 8181, 8681, PT103,

6181, 868H, ST866K, 8888

收件日期(Sample Receiving Date)

: 2018/01/16

測試期間(Testing Period)

: 2018/01/16 TO 2018/01/22

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測試鎬、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).

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, DBP, DEHP, DIBP comply with the limits as set by RoHS and amending Directive (EU) 2015/863.)

報告簽署人/Rav Char

Signed for and on behalt of >

SGS Taiwan Limited

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<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 本色塑膠粒 (NATURE COLORED PLASTIC PELLETS)

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	限値 (Limit)
鎬 / Cadmium (Cd)	mg/kg	参考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	參考IEC 62321-6: 2015方法,以氣相層 析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	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		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		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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試驗報告

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高雄市大社區經建路2號

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 (MDL)	結果 (Result) No.1	限値 (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	A harman and a name 1. 11 15 15 15 15	5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層	5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	OCT MO.	5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	1	5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	-
鄰苯二甲酸丁苯甲酯 / BBP (Butyl benzyl phthalate) (CAS No.: 85-68-7)	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
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	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
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	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

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頁數 (Page): 4 of 10 號碼(No.): KA/2018/11007 日期(Date): 2018/01/22

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LCY CHEMICAL CORP.

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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 (MDL)	結果 (Result) No.1	限値 (Limit)
六溴環十二烷及所有主要被辨别出的異構物 / 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.	-
鹵素 / Halogen					
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	参考BS EN 14582:2016,以離子層析儀 分析. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.	-
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		50	n.d.	-
鹵素(碘)/ Halogen-Iodine(I) (CAS No.: 14362-44-8)	mg/kg		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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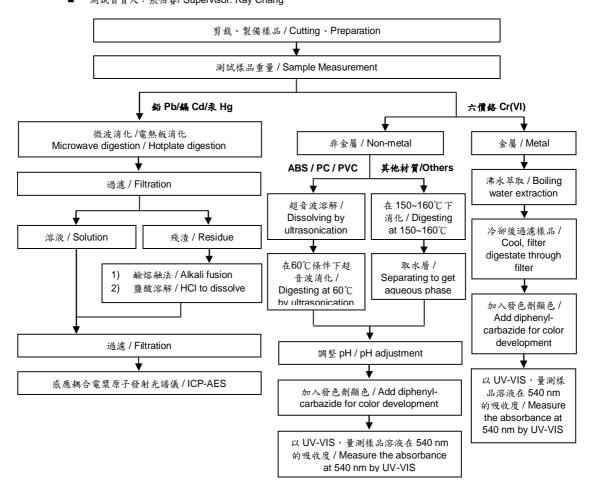
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

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



試驗報告

頁數 (Page): 6 of 10 號碼(No.): KA/2018/11007 日期(Date): 2018/01/22

Test Report

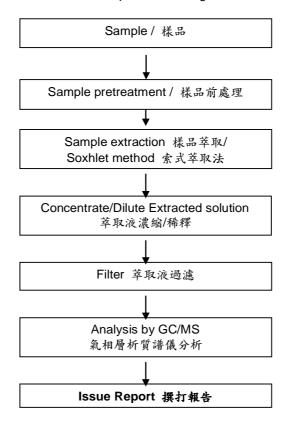
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

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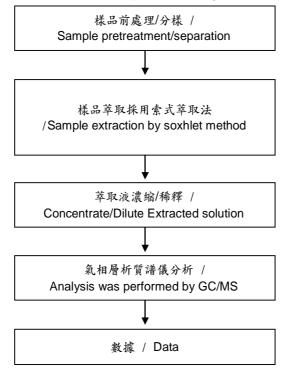
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NO. 2, JINGJIAN ROAD, DASHE DISTRICT, KAOHSIUNG CITY, 81567 TAIWAN, R.O.C.

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

1)测試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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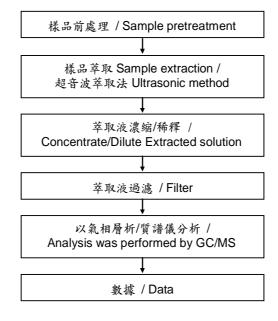
李長榮化學工業股份有限公司 LCY CHEMICAL CORP.

高雄市大社區經建路2號

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

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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試驗報告

頁數 (Page): 9 of 10 號碼(No.): KA/2018/11007 日期(Date): 2018/01/22

Test Report

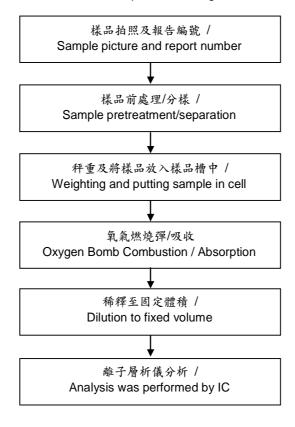
李長榮化學工業股份有限公司 LCY CHEMICAL CORP.

高雄市大社區經建路2號

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

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

- 1) 測試人員: 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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* 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/2018/11007



** 報告結尾 (End of Report) **

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