

Test Report

頁數(Page): 1 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO. 1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

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):

送樣廠商(Sample Submitted By) 奇菱科技股份有限公司 (CHI LIN TECHNOLOGY CO., LTD.) 樣品名稱(Sample Description) : ACRYLONITRILE-BUTADIENE-STYRENE (ABS) COPOLYMER

: GA-1535 \ GA-1565 \ GA-1585 樣品型號(Style/Item No.)

收件日期(Sample Receiving Date) 2020/02/15

測試期間(Testing Period) 2020/02/15 to 2020/02/21

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測試鍋、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 -Te Signed for and on behalf of SGS Taiwan Limited

化學實驗室-高雄/Chemical Laborato





Test Report

頁數(Page): 2 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO.1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

測試結果(Test Results)

測試部位(PART NAME) NO.1 黑色塑膠粒 (BLACK PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013,以感應耦合電漿 發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-0ES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013,以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-OES.	2	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013+AMD1:2017,以感應 耦合電漿發射光譜儀檢測. / With reference to IEC 62321- 4:2013+AMD1:2017 and performed by ICP- 0ES.	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.	_



Test Report

頁數(Page): 3 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO.1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	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	mg/kg		50	n. d.	1000
phthalate) (CAS No.: 84-74-2)					
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg		50	n. d.	1000
Benzyl phthalate) (CAS No.: 85-68-					
7)					
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP	mg/kg	參考IEC 62321-8:2017,以氣相層析/質譜	50	n. d.	1000
(Di- (2-ethylhexyl) phthalate)		儀檢測. / With reference to IEC 62321-			
(CAS No.: 117-81-7)		8:2017. Analysis was performed by			
鄰苯二甲酸二正辛酯 / DNOP (Di-n-	mg/kg	GC/MS.	50	n. d.	-
octyl phthalate) (CAS No.: 117-84-					
0)					
鄰苯二甲酸二異壬酯 / DINP (Di-	mg/kg		50	n. d.	-
isononyl phthalate) (CAS No.:					
28553-12-0, 68515-48-0)					
鄰苯二甲酸二異癸酯 / DIDP (Di-	mg/kg		50	n. d.	-
isodecyl phthalate) (CAS No.:					
26761-40-0, 68515-49-1)					



Test Report

頁數(Page): 4 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO.1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	参考BS EN 14582:2016,以離子層析儀檢測. / 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	参考BS EN 14582:2016,以離子層析儀檢測. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	97. 0	-
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	參考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.	-
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.:85535-84-8))	mg/kg	參考US EPA 3550C: 2007,以氣相層析儀/電子補捉偵測器檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by GC/ECD.	100	n. d.	-
中鏈氯化石蠟 / Medium-Chained Chlorinated Paraffins (C14-C17) (MCCP) (CAS No.: 85535-85-9)	%	參考US EPA 3550C: 2007,以氣相層析儀/電子補捉偵測器檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by GC/ECD.	0.01	n. d.	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	_
紅磷 / Red phosphorus	**	以熱裂解-氣相層析/質譜儀檢測. / Analysis was performed by Pyrolyzer- GC/MS.	-	Negative	-
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052: 1996,以感應耦合電漿發射光譜儀檢測. / With reference to US EPA 3052: 1996. Analysis was performed by ICP-OES.	2	103	-



Test Report

頁數(Page): 5 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO.1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result) NO.1	法規 限值 (Limit)
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121,以液相層析/質譜儀檢 測. / With reference to RSTS-E&E-121. Analysis was performed by LC/MS.	10	n. d.	-
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n. d.	1
苊烯 / Acenaphthylene (CAS No.: 208- 96-8)	mg/kg		0. 2	n. d.	ı
蔥 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n. d.	1
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n. d.	1
苯騈(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg		0.2	n. d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n. d.	_
苯駢芘 / Benzo[g, h, i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n. d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	\$ \$1000 CO 0014 01 DAY \$ 12 B 12 /66	0.2	n. d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg	· 參考AfPS GS 2014:01 PAK,以氣相層析/質	0. 2	n. d.	-
二苯駢蔥 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was	0. 2	n. d.	_
苯騈苊 / Fluoranthene (CAS No.: 206-44-0)	mg/kg	performed by GC/MS.	0.2	n. d.	-
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg]	0.2	n. d.	_
茚酮芘 / Indeno[1, 2, 3-c, d] pyrene (CAS No.: 193-39-5)	mg/kg		0. 2	n. d.	ı
茶 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n. d.	_
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n. d.	_
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg]	0.2	n. d.	_
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n. d.	_
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n. d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg		-	n. d.	_



Test Report

頁數(Page): 6 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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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)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)



Test Report

頁數(Page): 7 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO. 1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

△ 德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

	第1類(Category 1)	第2類(Category 2)		第3類(Category 3)		
項目 (Parameter)	意圖放入嘴內的材料或玩 具會與皮膚有所接觸(超 過30秒). (Material indented to be put in	30秒(長期或經常與 (Materials not fa 1 with foreseeable	皮膚接觸). Hing under category e contact to skin) seconds (long-term			
		列於2009/48/EC之 玩具 (Toy under 2009/48/EC)	列於德國產品安全法 之其他產品(Other products under ProdSG)	列於2009/48/EC之 玩具 (Toy under 2009/48/EC)	列於德國產品安全法 之其他產品(Other products under ProdSG)	
Naphthalene	< 1		< 2	<	10	
Acenaphthylene						
Acenaphthene						
Fluorene						
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Anthracene						
Fluoranthene						
Pyrene						
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno[1, 2, 3-c, d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo[a, h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50	

單位(Unit):mg/kg



Test Report

頁數(Page): 8 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO. 1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

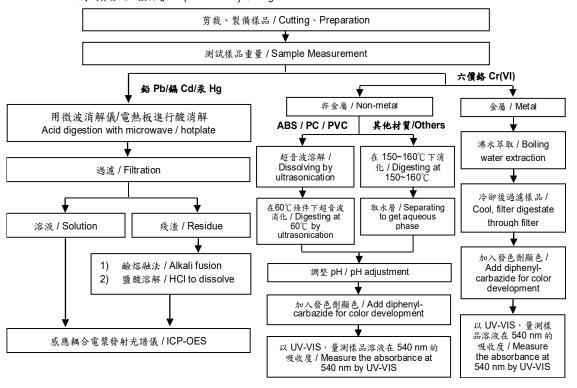
重金屬流程圖 / Analytical flow chart of Heavy Metal

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. \ (\ 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





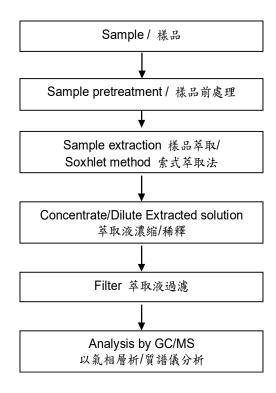
Test Report

頁數(Page): 9 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

奇菱科技股份有限公司/菱翔工程塑料(蘇州)有限公司 CHI LIN TECHNOLOGY CO., LTD./LIN SHINE ENGINEERING PLASTICS (SUZHOU) CO., LTD. 74148 台南市新市區王甲路1號(台南科學園區-樹谷園區)/中國江蘇省蘇州工業園區奇業路8號 NO. 1, WANGJIA RD., XINSHI DIST., TAINAN CITY 74148, TAIWAN (R.O.C.)/ NO. 8 QIYE ROAD, SUZHOU INDUSTRIAL PARK, JIANGSU PROVINCE, CHINA

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

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





Test Report

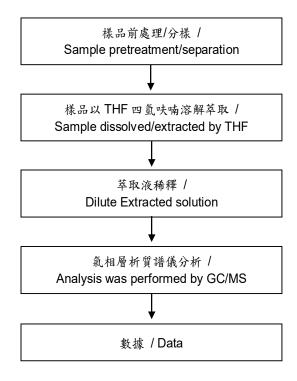
頁數(Page): 10 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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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 / Technician: Dorothy Chen 測試負責人:張伯睿 / Supervisor: Ray Chang

【测試方法/Test method: IEC 62321-8】





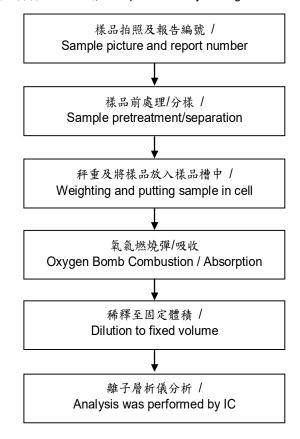
Test Report

頁數(Page): 11 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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

測試人員:洪秀真 / Technician : Jean Hung 測試負責人:張伯睿 / Supervisor: Ray Chang





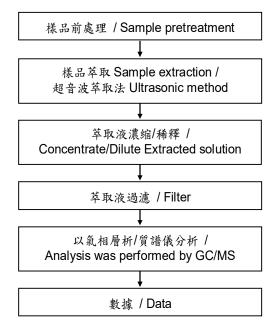
Test Report

頁數(Page): 12 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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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





Test Report

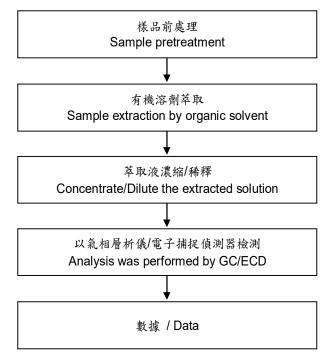
頁數(Page): 13 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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氯化石蠟分析流程圖 / Analytical flow chart - Chlorinated Paraffins

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

【参考方法(Reference method): US EPA 3550C】





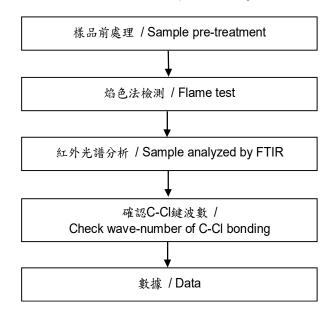
Test Report

頁數(Page): 14 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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聚氯乙烯物質判定分析流程圖 / Analysis flow chart for determination of PVC in material

測試人員:涂仕杰 / Technician: Jin Tu 測試負責人: 林立翔 / Supervisor: Roger Lin





Test Report

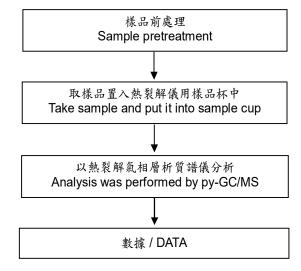
頁數(Page): 15 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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紅磷分析流程 / Analytical flow chart of Red phosphorus

■ 測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang





Test Report

頁數(Page): 16 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

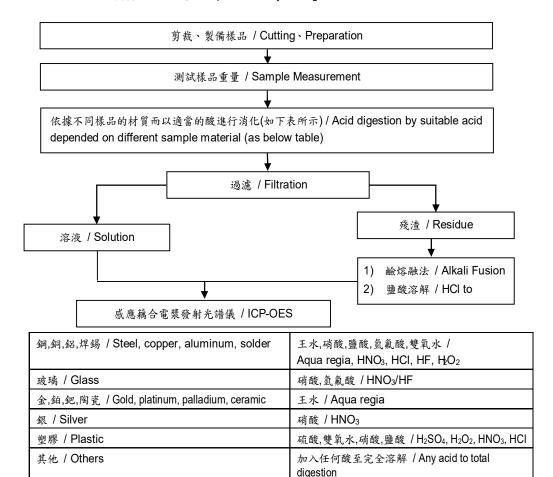
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元素以 ICP-OES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICPOES)

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.

測試人員:劉俊宏 / Technician: Jony Liu

測試負責人:張伯睿 / Supervisor: Ray Chang





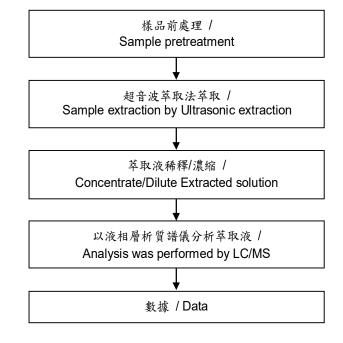
Test Report

頁數(Page): 17 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 測試人員:黃璟瓔/Technician: Ginny Huang
- 測試負責人:張伯睿/ Supervisor: Ray Chang





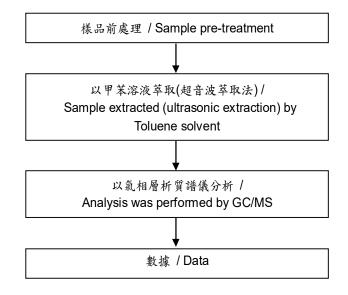
Test Report

頁數(Page): 18 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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多環芳香烴分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

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





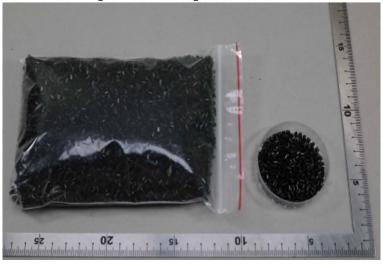
Test Report

頁數(Page): 19 of 19 號碼(No.): KA/2020/21018 日期(Date): 2020/02/21

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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/2020/21018



** 報告結尾(End of Report) **