

測試報告 Test Report

號碼(No.) : CE/2016/32653

日期(Date) : 2016/03/15

頁數(Page): 1 of 13

和巧股份有限公司

UNIX PLASTICS INC.

桃園市觀音區上大里13鄰中觀路一段767號

767, SEC. 1, ZHONG GUAN RD., NEIGHBORHOOD 13. SHANGDA LI. GUANYIN DISTRICT, TAOYUAN CITY 328, 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) :

送樣廠商(Sample Submitted By) : 和巧股份有限公司 (UNIX PLASTICS INC.)
樣品名稱(Sample Description) : CASE
樣品型號(Style/Item No.) : 請參考第6頁 (PLEASE REFER TO PAGE 6)
其他(Other Info.) : PA66 DUPONT 101L BLACK COLOR, 101L GRAY COLOR, 101L IVORY COLOR, 101L WHITE COLOR, N66-AS/10-VO(B), TORAY CM3004 BLACK COLOR, CM3004 GRAY COLOR, CM3004 WHITE COLOR, HP-740E BLACK, HP-918 WHITE, HP-760E BLACK, HP-960E WHITE, POM 500P COLOR (BLACK), PA66-T3004N1-V0, PA66 TORAY CM3004-V0 G-0937, PA66 TORAY CM3004-V0 AF-G-1014, PA66-T3004(110891), PA66-T3004(G)0937, PA66-T3004(1014)N66 101F BKB009, AMILAN CM3004 VOE C8064, NYLON 66-1300S-3J1, PBT-3030, PBT-4815, PA66-AG330
收件日期(Sample Receiving Date) : 2016/03/08
測試期間(Testing Period) : 2016/03/08 TO 2016/03/15

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Troy Chang, Manager - Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

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
鎘 / 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.
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.
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.
六價鉻 / 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.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
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.
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.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.
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		5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		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.	

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				No. 1
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.
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.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n. d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.
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.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n. d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg		50	n. d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg		50	n. d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				No. 1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	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 (氯) / Halogen-Chlorine (Cl) (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)
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別單一材質的含量。(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.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過1 μ g/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 μ g/m².)

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樣品型號(Style/Item No.):

0430, 0530(B), 0530(G), 0530V(B), 0530(W), 0530(NL), 0715(B),
0730(B), 0730(G), 0730V(B), 0930-1A(B), 0930-1A(G), 0930-1A(NL),
0930-1A(W), 0930-1AV(G), 0930-2(B), 0930-2(G), 0930-2(NL),
0930-2A(B), 0930-2A(G), 1030(B), 1130N(B), 1130N(G), 1130N(NL), 1130N(W), 1330(B), 1330(G),
1330V(B), 1330V(G), 1330A(B), 1330A(G), 1330AV(G), 1518(B), 1518(G),
2017, 2026(B), 3035(B), 3035(G), 3035V(B), F110, F30(B), F30(G), F30(NL),
F30(W), F35(B), F35(G), F35(W), F75(B), F75(W), LF100(B), LF100(NL), LF100(W),
LF1230V(G), LF130(B), LF130(W), LF130(NL), LF190(B), LF190V(B), LF50S(B),
LF50S(W), LF65(W), LF65(B), LF65A(B), LF65S(B), LF65S(NL), U-27,
S2001-2C2, MAG163A(B), MAG163A(G), MAG163AV(G), MAG204A(B), MAG204A(NL), MAG204A(G)
MAG204A(W), MAG204AV(B), LF130V(B), P602. 072-003, P602. 804-001, P602. 804-002, P612. 072-001, P602. 072-019
MAG168A(B), MAG168A(G), MAG168AV(B), MAG238AS(B), MAG238S(B),
MAG250S(B), MAG250SV(B), MAG250S(NL), MAG250S(G), UF-6. 5(W),
LF1613-0930R3, 0930-1A-JYH, SR-10(B), SR10-1(B), SR10-2(B), SR-12(G), SR-160(B), SR-160N(B), UF-100ST(B),
UF-100ST(W), UF-130ST(B), UF-130ST(W), UF-65ST(B),
UF65ST(W), NC3-001-002, MC2-016-015, MC2-021-025, MC2-021-025(B)
三星外殼, 2026ST, ASSE001(W), GRFC-3(NL), GRFC-4(NL), GRFC-5(NL)
GRFC-6(NL), GRFC-7(NL), GRFC-8(NL), GRFC-9(NL), GRFC-10(NL), GRFC-13(NL),
GRFC-3(B), GRFC-4(B), GRFC-5(B), GRFC-6(B), GRFC-7(B), GRFC-8(B), GRFC-9(B), GRFC-10(B), GRFC-13(B)
VBD-1010-60(B), VBD-1010-60(W), VBD-1410-40(B), VBD-1412-40 BK, VBD-1010-18(W), VBD-1010-40(BK),
ARFC-4(NL3), ARFC-5(NL3), ARFC-6(NL1), ARFC-8(NL3), ARFC-9(NL1), ARFC-13(NL3)
P601. 804-011, P602. 072-004, P602. 072-003, P602. 804-002, P611. 634-001, P612. 072-001, P602. 634-021,
ARFC-4V(NL), ARFC-5V(NL), ARFC-6V(NL), ARFC-8V(NL1), ARFC-9V(NL)
ATFC-16813(NL3), ATFC-16813V(NL), ATFC-16816(NL3), ATFC-16816V(NL4), ATFC-201010(NL3),
ATFC-201010V(NL), ATFC-231114(NL3), ATFC-231114V(NL4), ATFC-251512(NL3),
TKN-03, TKN-04, GM9025235-1, GM9025235-2, RSGSL-190E BK
ZCAT1325-0530BK, ZCAT3035-1330BK, ZCAT2035-0930BK, ZCAT2132-1130BK,
ZCAT2032-0930BK, ZCAT1518-0730BK, ZCAT1518NL-SW(BK),
ZCAT1730-0730BK, ZCAT1730NL-SW(BK), ZCAT2017-0930BK, ZCAT2035NL-SE(BK),
ZCAT2436-1330BK, CASE ZCAT 1325A-JW-SNBK, CASE ZCAT2035-JW-SNBK,
CASE ZCAT 1325E- BK, CASE ZCAT2035-JW BK, ZCAT3035-1330GY, ZCAT3035NL-SW(GY),
ZCAT2035-0930GY, ZCAT2035NL-SW(GY), ZCAT2132-1130GY, ZCAT2132BNL-SW(GY),
ZCAT2436-1330GY, ZCAT2436-SW(GY), ZCAT2032-0930GY, ZCAT2032NL-SW(GY),
ZCAT2017-0930GY, ZCAT2017NL-SW(GY), ZCAT1730-0730GY, ZCAT1730NL-SW(GY),
ZCAT-0730GY, ZCAT1325-0530GY, CASE ZCAT 1325A-JW-VT, ZCAT1518-SW-GY,
ZCAT1325-SW GY, ZCAT2032-0930 BK, ZCAT1325NL-SW BK, ZCAT1518-0730 GY
CASE ZCAT10FR2, CASE 3035D-SWA-GY, ZCAT2235-1030A GY, ZCAT 4625-3430D GY, ZCAT 4625-3430D BK,
ZCAT 3618-2630D-GY, ZCAT 3618-2630D-BK, ZCAT 13D GY, ZCAT 13D BK, ZCAT 20D GY, ZCAT 20D BK,
ZCAT 2235-1030A GY, ZCAT 2235-1030A, ZCAT6819-1330D, CRT 80A, CRT 80A-1, CRT 300A, CRT300A-1, CRT 600A, CRT 600A-1

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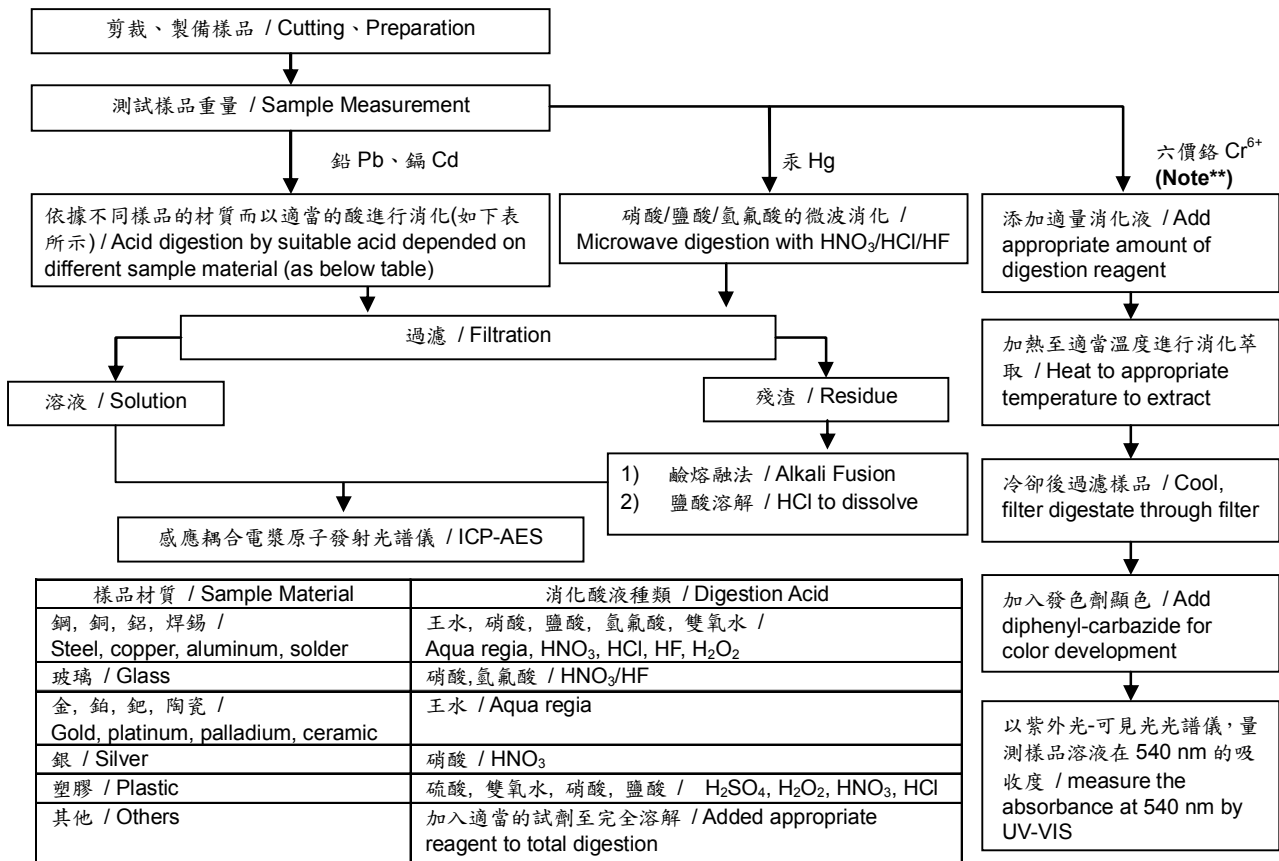
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根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：楊登偉 / Technician : Climbgreat Yang
- 測試負責人：張啟興 / Supervisor: Troy Chang



Note (For IEC 62321)**

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°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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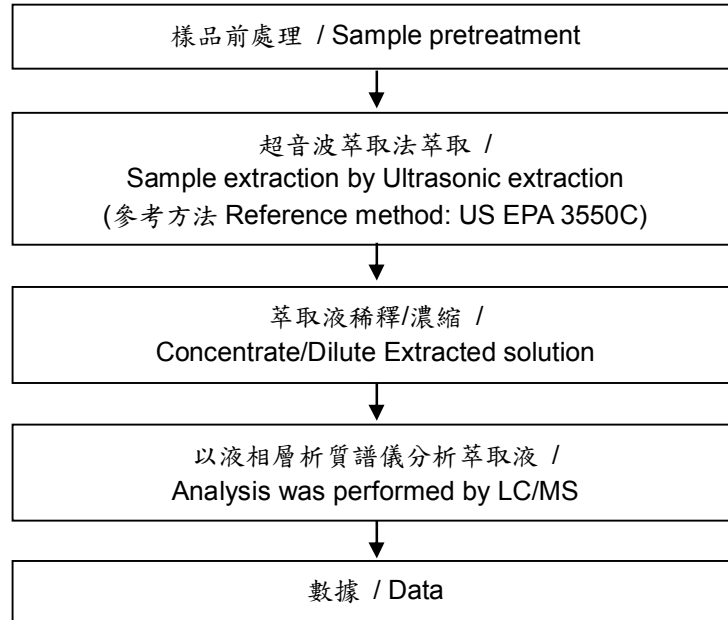
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：翁賜彬 / Technician: Roman Wong
- 測試負責人：張啟興 / Supervisor: Troy Chang



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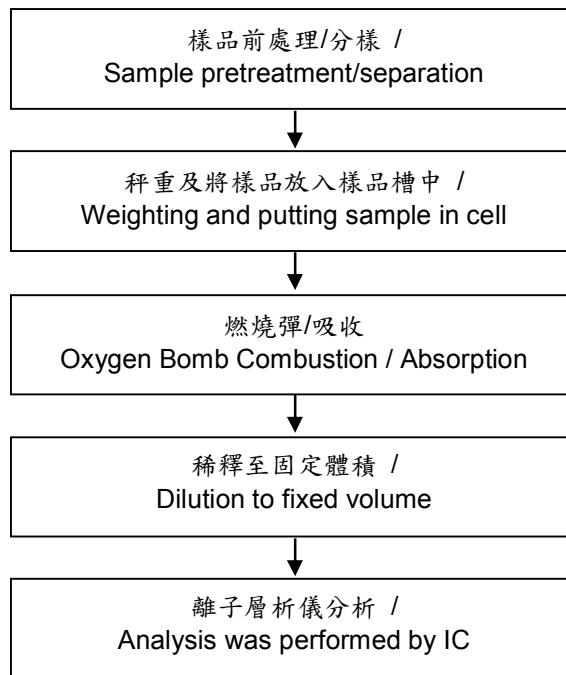
桃園市觀音區上大里13鄰中觀路一段767號

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鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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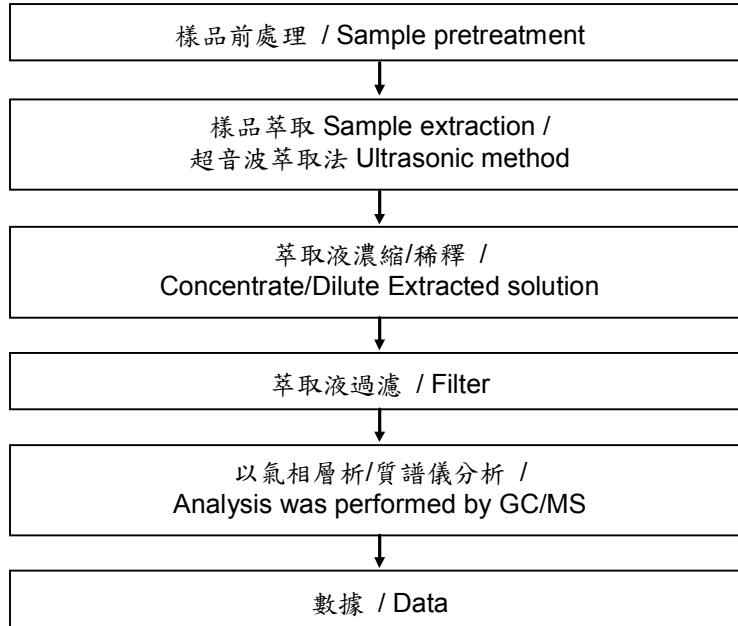
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：翁賜彬 / Technician: Roman Wong
- 測試負責人：張啟興 / Supervisor: Troy Chang



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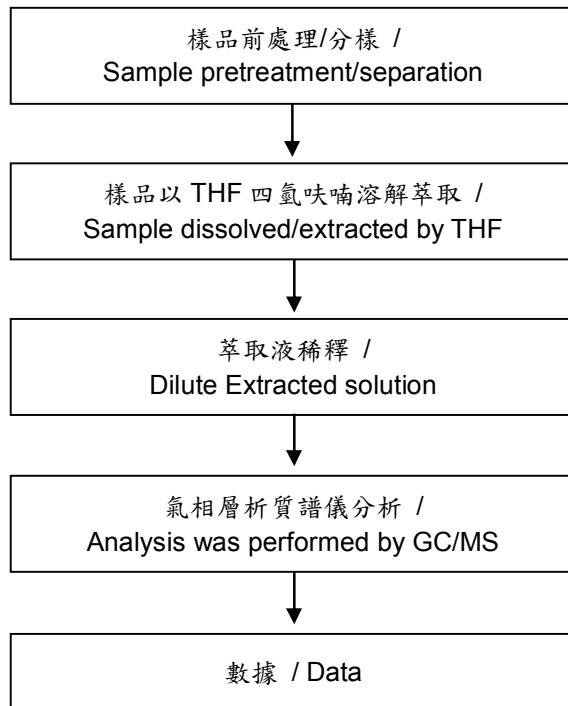
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor nt: Troy Chang

【測試方法/Test method: IEC 62321-8】



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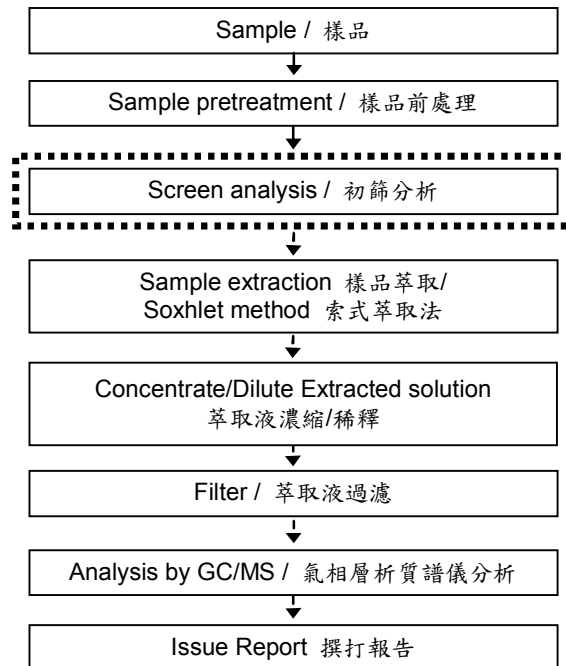
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：翁賜彬 / Technician: Roman Wong
- 測試負責人：張啟興 / Supervisor: Troy Chang

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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* 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.)

CE/2016/32653



** 報告結尾 (End of Report) **