

規格承認書

ISO 9001

ISO 14001

QC 080000

APPROVED DATA SHEET

台灣萬保剛股份有限公司

台照

茲送 貴公司所要求之樣品 個，規格書 份，敬請確認，惠返一份。

貴公司零件編號: _____ 本公司製品型號: QW-1

貴公司 Set 編號: _____ 附 屬 品: _____

摘要: _____

西 元 2023 年 8 月 22 日

貴公司確認印鑑



康揚企業股份有限公司

台灣總公司：新北市汐止區環河街 187 號

TEL: (02) 2692-1498

FAX: (02) 2692-2498

康揚塑膠（東莞）有限公司

廣東省東莞市長安鎮上角社區紅棉路 2 號

TEL: (0769)85305187~9

FAX: (0769)85305190

康哲電腦配件（吳江）有限公司

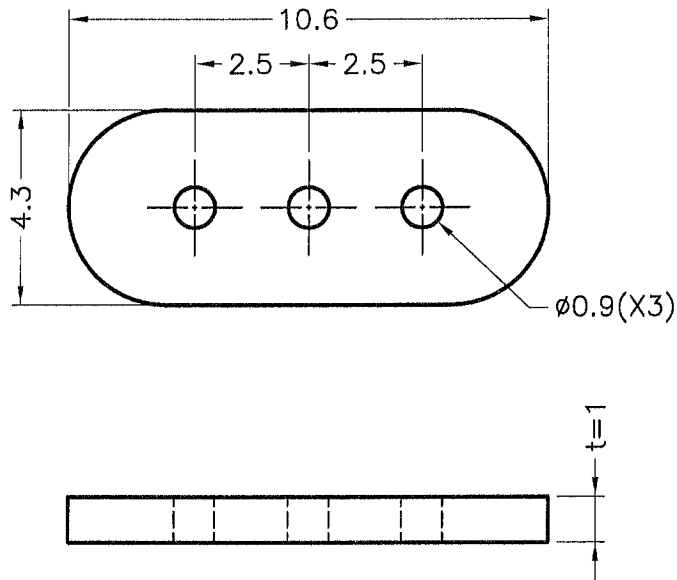
江蘇省蘇州市吳江區松陵鎮花港路 877 號

TEL: (0512)82072000

FAX: (0512)63434598~9

DIM	TOL
5mm DOWN	±0.2
5~20mm	±0.3
20~40mm	±0.4
40~60mm	±0.5
60~100mm	±0.8
100mm UP	±1.0

REVISIONS			
REV	DESCRIPTION	DATE	BY




 康揚企業股份有限公司
 KANG YANG HARDWARE ENTERPRISE CO., LTD.
 康揚塑膠(東莞)有限公司
 KANG YANG PLASTIC(DONG GUAN) CO., LTD.
 康哲電腦配件(吳江)有限公司
 KANG CHE COMPUTER COMPONENTS(WUJIANG) CO., LTD.

CRYSTAL WASHER

MATERIAL
NYLON 66 UL94V-2

FINISH


COLOR
NATURAL


UNLESS OTHERWISE SPECIFIED
TOLERANCE SEE ABOVE

SPEC. DWG.

DATE
1997.08.12

DRAWN
JASON

CHECK


APPROVED


PART NUMBER
QW-1

DRAWING NUMBER
QW-1H

SIZE
A4

SCALE
6:1

UNIT
mm

REV
A

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PROSPECTOR®

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View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics

E41938

Guide Information

[View Certificate of Compliance](#)

CELANESE INTERNATIONAL CORP

8040 DIXIE HWY, FLORENCE KY 41042-2904

101(r9)(f1), 101F(r9)(f1), 101L(r9)(f1), E101(r9)(f1), E101L(r9)(f1)

Polyamide 66 (PA66) "Zytel", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
ALL	0.71	V-2	4	0	130	75	85
	1.5	V-2	3	0	130	75	85
	3.0	V-2	2	0	130	75	85
	6.0	V-2	2	0	130	75	85

Comparative Tracking Index (CTI): 0
 Dielectric Strength (kV/mm): 13
 High-Voltage Arc Tracking Rate (HVTR): 0
 Dimensional Change (%): -
 Inclined Plane Tracking (IPT) kV: -
 Volume Resistivity (10^x ohm-cm): 14
 Surface Resistivity (10^x ohms/square): -
 High Volt, Low Current Arc Resis (D495): 6

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(r9) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics for ALL colors down to 0.71mm. For thickness 0.40mm to 0.70mm the same basic material characteristics exist with the exception of generic RTIs for all properties and Regrind exceeding 25% is limited to V-2 Flammability for WT, RD, BK.

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "ETPV" for ETPV or "SOR" for Sorona grades.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1996-07-29

Last Revised: 2022-07-04



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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.71	V-2 (ALL)
			1.5	V-2 (ALL)
			3.0	V-2 (ALL)
			6.0	V-2 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	0.71	960
			1.5	960
			3.0	960
			6.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	0.71	725
			1.5	750
			3.0	800
			6.0	800
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	240
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-1	kJ/m ²	-	-

測試報告 Test Report

號碼(No.): ETR23300196

日期(Date): 07-Mar-2023

頁數(Page): 1 of 11

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, 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 the applicant as) :

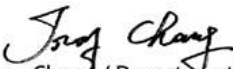
送樣廠商(Sample Submitted By) : 協祐股份有限公司 (WGJ COMPANY LTD.)
樣品名稱(Sample Name) : CELANESE ZYTEL N-66
樣品型號(Style/Item No.) : 101FNC010


=====

收件日(Sample Receiving Date) : 01-Mar-2023
測試期間(Testing Period) : 01-Mar-2023 to 07-Mar-2023

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) : 請參閱下一頁 (Please refer to following pages.)


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



PIN CODE: 0D013849

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桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 半透明塑膠粒 (TRANSLUCENT PLASTIC PELLETS)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.

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桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.

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桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

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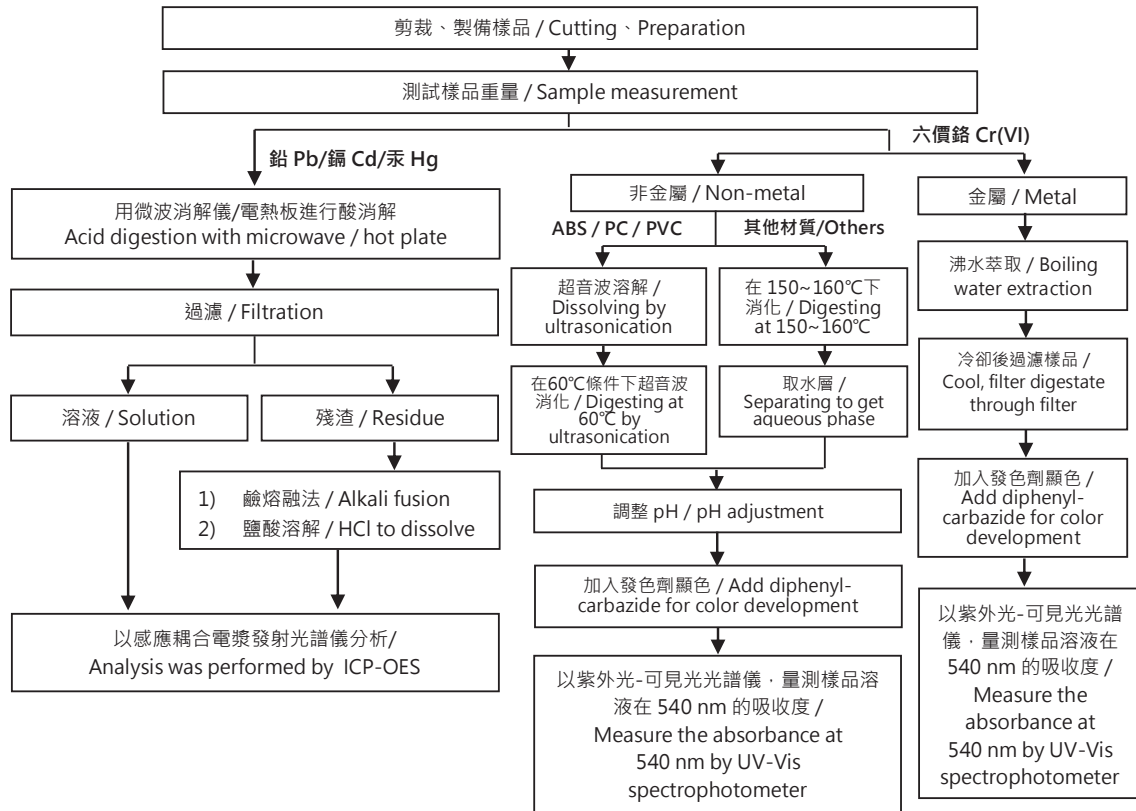
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重金屬流程圖 / Analytical flow chart of heavy metal

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)



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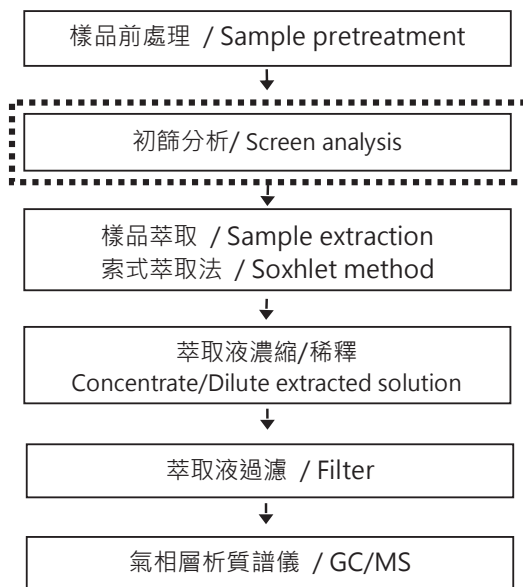
頁數(Page): 6 of 11

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桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs

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 - - - →



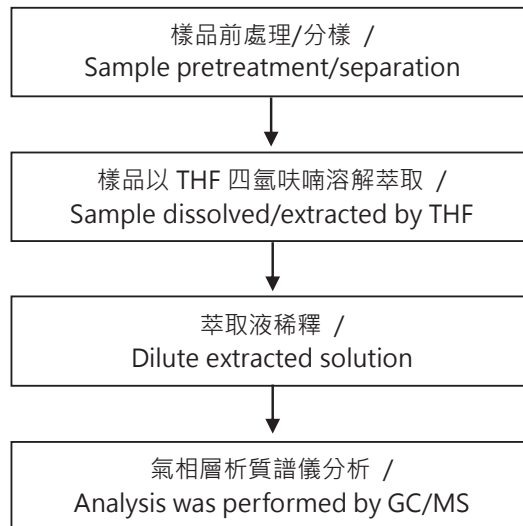
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桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUIZHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

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

【測試方法/Test method: IEC 62321-8】



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測試報告

Test Report

號碼(No.): ETR23300196

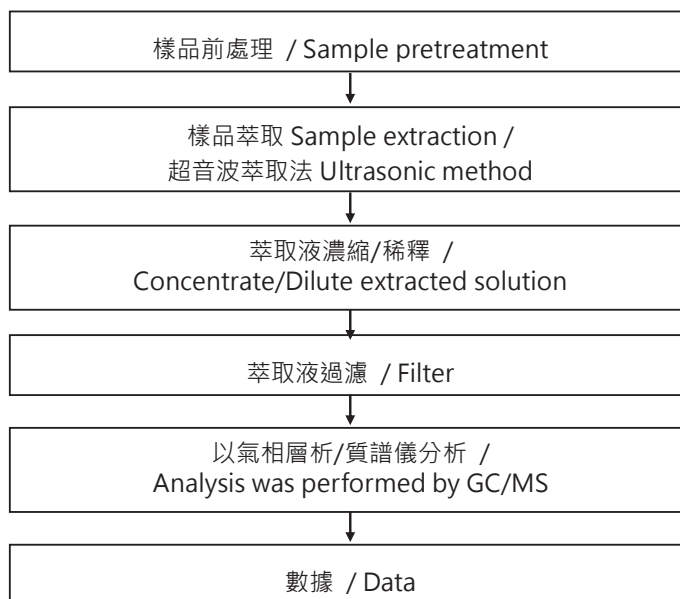
日期(Date): 07-Mar-2023

頁數(Page): 8 of 11

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

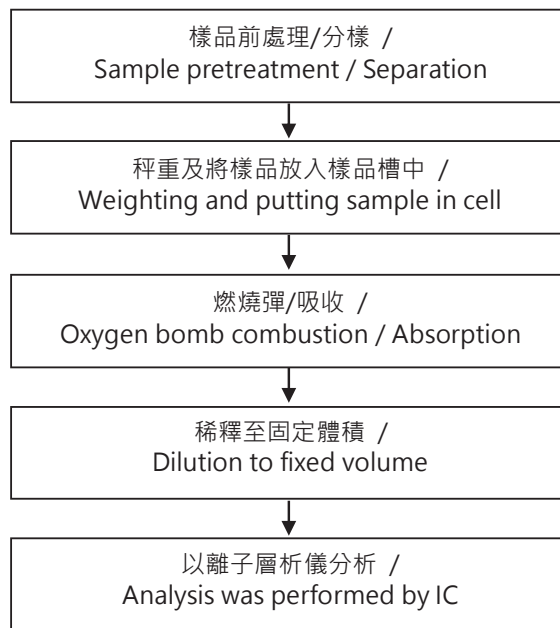


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鹵素分析流程圖 / Analytical flow chart - Halogen

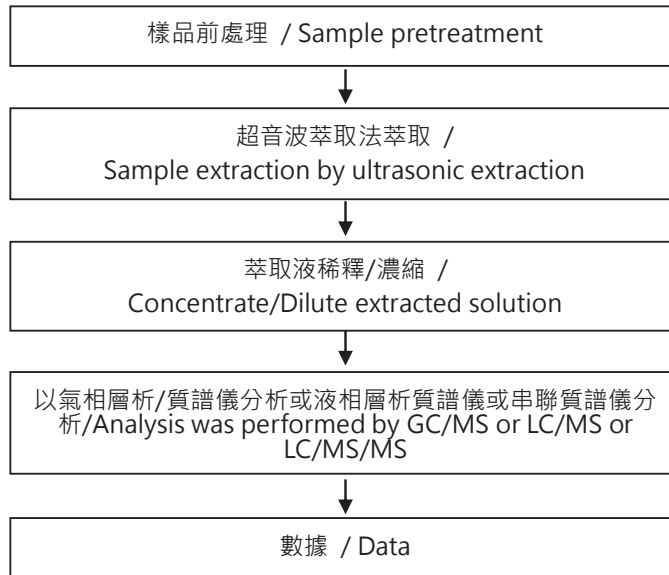


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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測試報告

Test Report

號碼(No.): ETR23300196

日期(Date): 07-Mar-2023

頁數(Page): 11 of 11

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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.)

ETR23300196



** 報告結尾 (End of Report) **

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