





設計驗證
工程課
2023.10.19
發行
鈺緯科技開發股份有限公司

Customer: 鈺緯科技 **Files No.:** **WG2310117001**

Part No.: **3MD332LB01B** (M2937) **Date:** **2023/10/17**

Specification: **Product Code:** **PO6B+MPET#25**

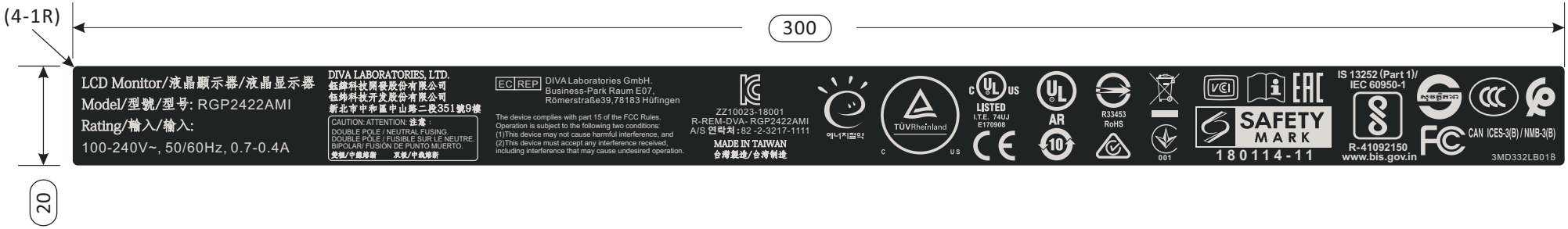
CONSTRUCTION:

- Face-stock:
- Base weight: 17.
- Tack: <5cm （PSTC-6，#14 balls）.
- Holding Power: >24 hr （PSTC-7）.
- Release Force: 7~12 g/in.
- Temperature of Service Range: 5 degree C to 150 degree C.
- UV Resistance: Very good.
- Chemical Resistance: Very good.
- Plasticizer Content: None.
- Humidity Resistance: Good.
- ***Laminating: MPET#25***
  - Material: Polypropylene Film.
  - Color: Matt Transparent
  - Film thickness: 0.025mm.
  - Total thickness: 0.043mm
  - Smoothness: Good.
  - 180° Peel Adhesion: 0.6 kg/25mm
- Face-stock: 2.8 Mil (0.07mm±10%) gloss white smooth art paper.
- Adhesive: 0.85 Mil (0.022mm±10%) acrylic base.
- Release Liner: 2.14 Mil (0.055mm±10%) #65 white densified kraft.
- #CLW3 surface material is white color and that printable is good for thermal transfer and ink printing.
- But #CLW3 can not using for water and greasy resistance.
- The adhesive base 180 degree peel off adhesion is 1.0 kg/25mm, Release force is 5-15 g/25mm temperature range is -20 degree C ~ 100 degree C.
- NOTE:
- Die-cutting single label size is 300(W)*20 (L). (+0/-0.3mm), printing colorful text label on the base.



Approval by Customer	Check by Customer	Confirm by Wai Gha Co.	List by Wai Gha Co.
台北縣汐止市大同路三段194號1F 威嘉實業有限公司 TEL:8647-3525(代表號)	設計驗證 工程課 2023.10.19 發行 鈺緯科技開發股份有限公司	*張哲溫*	*蔣仲原*

REV.	DATE	DESCRIPTION	BY	APVD
A	2018/09/26	加印度logo，更新SAFETY MARK logo，料號進階	TINA	
B	2019/01/21	加摩洛哥logo，BIS logo加字，FCC加警語 料號進階	TINA	
1	2020/04/20	change thickness from 0.14mm to 0.1mm	ALBERT	



Note:
1.Material: polyester film silver matt label (50#)
  Coated: polyester film transparent label
2.Color: background: Pantone 426C
  Character: Silver
3.Adhesive: acrylic adhesive
4.Material need to meet UL requirements
5.Meet UL second printing standard
6.Use PGDQ2 printed label: MING MEI, type: MM-001
7.材質+背膠總厚度t=0.1mm±0.05mm
8.顏色、尺寸參照承認樣品
9.IQC inspection document : QWI-016

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RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION		
		V	
	f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE±1° (±1.75/100)			

THIRD ANGLE PROJECTION		UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.:RGP2422AMI-P
		MATERIAL:		TREATMENT:	
DSGD by	ALBERT	2020/04/20	PART NAME: MODEL LABEL		
APVD by	Yaylie	2023/10/17	PART NO.: 3MD332LB01B		VER. 1
APVD NO.: M2937	FILE NAME: RGP2422AMI-P.cdr	DIVA Laboratories ,Ltd.			

測試報告
Test Report

號碼(No.): ETR23603838　　日期(Date): 30-Jun-2023　　

九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY 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)	:	九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
樣品名稱(Sample Name)	:	POLYESTER FILM LABEL (透明特多龍表面處理膜商標紙)
樣品型號(Style/Item No.)	:	請參考第二頁 (PLEASE REFER TO PAGE 2)

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收件日(Sample Receiving Date)	:	21-Jun-2023
測試期間(Testing Period)	:	21-Jun-2023 to 30-Jun-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) 依據客戶指定，測試 PAHs 及其他測項。 (As specified by client, to test PAHs and other item(s).)

(3) 依據客戶要求，評估所選樣品中特定PFAS的風險。被評估的PFAS總項目數量為185項，包括80項檢測項和105項列表項 (see PFAS Remark)。 (As requested by the client, the risk of specific PFAS in the selected sample is evaluated. The total amounts of evaluated PFAS are 185 items, concluding 80 tested items and 105 listed items (see PFAS Remark).)

測試結果(Test Results)　：　請參閱下一頁 (Please refer to following pages.)

結　論(Conclusion)　：

(2) 根據客戶所提供的樣品，多環芳香烴測試結果符合德國產品安全委員會(AfPS) GS PAHs第 3 類「其它產品」之限值要求。(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3)「Other consumer products」 as set by German Committee on Product Safety (AfPS) GS PAHs.)

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

PIN CODE: 3F569114

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樣品型號(Style/Item No.) :

PET25U-EW、PET50U-EW、WPET188U-K、WMPET50B-B、WPET25U-EW、WPET50P-WL、RBLP5-W、PET25U-8K、PET50U-8K、BPET95B-W、PET25U-7T、PET12U-2T、PET50C-7T、PET50U-K、WPET50P-7T、WPET25U-K、PET50UR3-EW、WPET25U-B、WPET50U-B、PET25U-K、PET50U-K、PETH13-5T、PETH14D-5T、KPET50-5T、KRBL-16K、KMPET25B0-10K、KMOPP15-10K、OPP2-Y、KMPET25B0R3-5TA、WPET50PN-EWP、SLFC-6W、PET25C-14Y、PET100-EW、MPET100S-16K、BPET50-W、 BPET50UI-K、PET50CR-EW、PET188H-14Y、PET257CS-EW、PET36-PY4、DPT25-5T/8KT、D2T2T-8K、1PT8PU、1PT10S

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測試部位敘述 (Test Part Description)

No.1 : 半透明塑膠膜 (TRANSLUCENT PLASTIC FILM)

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	限值 (Limit)
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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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
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.	-
富馬酸二甲酯 (DMFu) (Dimethyl fumarate (DMFu)) (CAS No.: 624-49-7)	參考US EPA 3550C: 2007，以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs)					
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)	參考AfPS GS 2019:01 PAK，以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	Δ
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	Δ
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	Δ
苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	Δ
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	Δ
苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	Δ
䓛 (Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	Δ
二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	Δ
苯駢苝 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	Δ
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	Δ
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	Δ
苯駢芴 (Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	Δ
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	Δ
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	Δ
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	1.41	Δ
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	1.41	Δ

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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 (PFOS) (Perfluorooctane sulfonates (PFOS)) (CAS No.: 1763-23-1)	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.	-
全氟辛基磺酸鉀 (PFOS-K) (Potassium Perfluorooctanesulfonate (PFOS-K)) (CAS No.: 2795-39-3)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鋰 (PFOS-Li) (Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)) (CAS No.: 29457-72-5)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸銨 (PFOS-NH4) (Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)) (CAS No.: 29081-56-9)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸二乙醇銨 (PFOS-NH(OH)2) (Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)) (CAS No.: 70225-14-8)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸四乙基銨 (PFOS-N(C2H5)4) (Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C2H5)4)) (CAS No.: 56773-42-3)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) (N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)) (CAS No.: 251099-16-8)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺醯氟 (POSF) (Perfluorooctane sulfonyl fluoride (POSF)) (CAS No.: 307-35-7)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鎂 (PFOS-Mg) (Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)) (CAS No.: 91036-71-4)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
全氟辛基磺酸鈉 (PFOS-Na) (Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)) (CAS No.: 4021-47-0)	由全氟辛烷磺酸測試結果計算得之。(Calculated from the result of PFOS.)	mg/kg	0.01▲	n.d.	-
N-乙基全氟正辛磺醯胺 (EtFOSA) (N-ethylperfluoro-1-octanesulfonamide (EtFOSA)) (CAS No.: 4151-50-2)	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.	-
N-甲基全氟正辛磺醯胺 (N-Me-FOSA) (N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)) (CAS No.: 31506-32-8)	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.	-
N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE alcohol) (N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol)) (CAS No.: 1691-99-2)	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.	-
N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE alcohol) (N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol)) (CAS No.: 24448-09-7)	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.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛基磺醯胺 (PFOSA) (Perfluoroctanesulfonamide (PFOSA)) (CAS No.: 754-91-6)	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(PFOA) (Perfluorooctanoic Acid (PFOA)) (CAS No.: 335-67-1)	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.	-
全氟辛酸鈉 (PFOA-Na) (Sodium perfluorooctanoate (PFOA-Na)) (CAS No.: 335-95-5)	由全氟辛酸測試結果計算得之。 (Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸鉀 (PFOA-K) (Potassium perfluorooctanoate (PFOA-K)) (CAS No.: 2395-00-8)	由全氟辛酸測試結果計算得之。 (Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸銀 (PFOA-Ag) (Silver perfluorooctanote (PFOA-Ag)) (CAS No.: 335-93-3)	由全氟辛酸測試結果計算得之。 (Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛氟 (PFOA-F) (Perfluorooctanoyl fluoride (PFOA-F)) (CAS No.: 335-66-0)	由全氟辛酸測試結果計算得之。 (Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
全氟辛酸銨 (APFO) (Ammonium pentadecafluorooctanoate (APFO)) (CAS No.: 3825-26-1)	由全氟辛酸測試結果計算得之。 (Calculated from the result of PFOA.)	mg/kg	0.01▲	n.d.	-
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS) (1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)) (CAS No.: 39108-34-4)	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.	-
全氟辛酸甲酯 (Me-PFOA) (Methyl perfluorooctanoate (Me-PFOA)) (CAS No.: 376-27-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟辛酸乙酯 (Et-PFOA) (Ethyl perfluorooctanoate (Et-PFOA)) (CAS No.: 3108-24-5)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)) (CAS No.: 678-39-7)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) (1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)) (CAS No.: 27905-45-9)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基甲基丙烯酸鹽 (8:2 FTMA) (1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)) (CAS No.: 1996-88-9)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟辛基碘烷 (PFOI) (Perfluoro-1-iodooctane (PFOI)) (CAS No.: 507-63-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟/多氟烷基物質 (PFAS)					
全氟丁酸及其鹽類 (PFBA and its salts) (Perfluorobutane acid and its salts (PFBA and its salts)) (CAS No.: 375-22-4 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.	-
全氟丁磺酸及其鹽類 (PFBS and its salts) (Perfluorobutane sulfonate and its salts (PFBS and its salts)) (CAS No.: 375-73-5 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.	-
1H,1H,2H,2H-甲基丙烯酸全氟己酯 (4:2 FTMA) (1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)) (CAS No.: 1799-84-4)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟戊酸及其鹽類 (PFPA and its salts) (Perfluoropentane acid and its salts (PFPA and its salts)) (CAS No.: 2706-90-3 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.	-
全氟己酸及其鹽類 (PFHxA and its salts) (Perfluorohexane acid and its salts (PFHxA and its salts)) (CAS No.: 307-24-4 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.	-
全氟己基碘 (PFHxI) (Perfluorohexyl iodide (PFHxI)) (CAS No.: 355-43-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
全氟己基乙烯 (PFHxE) (Perfluorohexyl ethylene (PFHxE)) (CAS No.: 25291-17-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	1	n.d.	-
1H,1H,2H,2H-全氟辛基碘 (6_2FOI) (1H,1H,2H,2H-Perfluorooctyl iodide (6_2FOI)) (CAS No.: 2043-57-4)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-octanol (6:2FTOH)) (CAS No.: 647-42-7)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA) (1H,1H,2H,2H-Perfluorooctylacrylate (6:2FTA)) (CAS No.: 17527-29-6)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯(6_2 FTMAC) (1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)) (CAS No.: 2144-53-8)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟辛磺酸 (H4PFOS 6:2) (1H,1H,2H,2H-Perfluorooctanesulphonic Acid (H4PFOS 6:2)) (CAS No.: 27619-97-2)	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.	-
全氟己基磺酸及其鹽類 (PFHxS and its salts) (Perfluorohexane sulfonate and its salts (PFHxS and its salts)) (CAS No.: 355-46-4 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.	-
N-甲基全氟-1-己烷磺醯胺 (N-MeFHxSA) (N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)) (CAS No.: 68259-15-4)	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.	-
全氟己烷磺醯胺 (PFHxSA) (Perfluorohexane sulfonamide (PFHxSA)) (CAS No.: 41997-13-1)	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.	-
N-[3-(二甲基氨基)丙基]十三氟己烷磺醯胺 (N-AP-FHxSA) (N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)) (CAS No.: 50598-28-2)	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.	-
2-[甲基[(十三氟己基)磺醯基]氨基]丙烯酸乙酯 (N-MeFHSEA) (2-[Methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate (N-MeFHSEA)) (CAS No.: 67584-57-0)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.5	n.d.	-
全氟庚酸及其鹽類 (PFHpA and its salts) (Perfluoroheptane acid and its salts (PFHpA and its salts)) (CAS No.: 375-85-9 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.	-
7H-十二氟庚酸 (HPFHpA) (7H-Dodecanefluoroheptane Acid (HPFHpA)) (CAS No.: 1546-95-8)	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.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟庚基磺酸及其鹽類 (PFHpS and its salts) (Perfluoroheptane sulfonate and its salts (PFHpS and its salts)) (CAS No.: 375-92-8 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.	-
全氟辛烷磺酸 (PFOS) (Perfluorooctane sulfonates (PFOS)) (CAS No.: 1763-23-1)	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(PFOA) (Perfluorooctanoic Acid (PFOA)) (CAS No.: 335-67-1)	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.	-
全氟壬酸及其鹽類 (PFNA and its salts) (Perfluorononan-1-oic acid and its salts (PFNA and its salts)) (CAS No.: 375-95-1 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-3,7-二甲基辛酸 (PF-3,7-DMOA) (Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)) (CAS No.: 172155-07-6)	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.	-
全氟癸酸及其鹽類 (PFDA and its salts) (Perfluorodecane acid and its salts (PFDA and its salts)) (CAS No.: 335-76-2 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.	-
全氟十一烷酸及其鹽類 (PFUnDA and its salts) (Perfluoroundecanoic acid and its salts (PFUnDA and its salts)) (CAS No.: 2058-94-8 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.	-
全氟十二烷酸及其鹽類 (PFDoDA and its salts) (Perfluorododecanoic acid and its salts (PFDoDA and its salts)) (CAS No.: 307-55-1 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.	-

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九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟癸烷磺酸及其鹽類 (PFDS and its salts) (Perfluorodecane sulfonate and its salts (PFDS and its salts)) (CAS No.: 126105-34-8, 335-77-3 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.	-
全氟十三烷酸及其鹽類 (PFTrDA and its salts) (Pentacosafluorotridecanoic acid and its salts (PFTrDA and its salts)) (CAS No.: 72629-94-8 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.	-
全氟十四烷酸及其鹽類 (PFTDA and its salts) (Perfluorotetradecanoic acid and its salts (PFTDA and its salts)) (CAS No.: 376-06-7 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.	-
全氟十五烷酸及其鹽類 (PFPeDA and its salts, C15) (Perfluoropentadecanoic acid and its salts (PFPeDA and its salts, C15)) (CAS No.: 141074-63-7 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.	-
全氟十六烷酸及其鹽類 (PFHxDA and its salts, C16) (Perfluorohexadecanoic acid and its salts (PFHxDA and its salts, C16)) (CAS No.: 67905-19-5 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.	-
全氟十八烷酸及其鹽類 (PFODA and its salts, C18) (Perfluorooctadecanoic acid and its salts (PFODA and its salts, C18)) (CAS No.: 16517-11-6 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.	-
全氟壬烷磺酸及其鹽類 (PFNS and its salts) (Perfluorononane sulfonic acid and its salts (PFNS and its salts)) (CAS No.: 68259-12-1 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.	-
全氟十一烷磺酸及其鹽類 (PFUnS and its salts) (Perfluoroundecane sulfonic acid and its salts (PFUnS and its salts)) (CAS No.: 749786-16-1 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.	-

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苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
全氟十二烷磺酸及其鹽類 (PFDoDS and its salts) (Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts)) (CAS No.: 79780-39-5 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.	-
全氟十三烷磺酸及其鹽類 (PFTrDS and its salts) (Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts)) (CAS No.: 791563-89-8 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.	-
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA) (1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA)) (CAS No.: 17741-60-5)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟-1-十二醇 (10:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH)) (CAS No.: 865-86-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (10:2 FTMA) (1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)) (CAS No.: 2144-54-9)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟十二烷基碘 (10:2 FTI) (1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)) (CAS No.: 2043-54-1)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟十二烷磺酸 (10:2 FTS) (1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)) (CAS No.: 120226-60-0)	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.	-
1H,1H,2H,2H-全氟十四烷基碘 (12:2 FTI) (1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)) (CAS No.: 30046-31-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-

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測試報告
Test Report

九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟十四烷基醇 (12:2 FTOH) (1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)) (CAS No.: 39239-77-5)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H-全氟-1-癸烯 (PFDE) (1H,1H,2H-Heptadecafluoro-1-decene (PFDE)) (CAS No.: 21652-58-4)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
全氟-3-甲氧基丙酸 (PFMPA) (Perfluoro-3-methoxypropanoic acid (PFMPA)) (CAS No.: 377-73-1)	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 4-甲氧基丁酸 (PFMBA) (Perfluoro-4-methoxybutanoic acid (PFMBA)) (CAS No.: 863090-89-5)	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-3,6-二氧雜庚酸 (NFDHA) (Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)) (CAS No.: 151772-58-6)	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.	-
4,8-二氧雜-3H-全氟壬酸 (ADONA) (4,8-Dioxa-3H-perfluorononanoic acid (ADONA)) (CAS No.: 919005-14-4)	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.	-
2H,2H-全氟癸酸 (H2PFDA) (2H,2H-Perfluorodecane Acid (H2PFDA)) (CAS No.: 27854-31-5；882489-14-7)	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.	-
2H,2H,3H,3H-全氟癸酸及其鹽類 (4HPFUnA and its salts) (2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts)) (CAS No.: 34598-33-9 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.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-hexanol (4:2FTOH)) (CAS No.: 2043-47-2)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
1H,1H,2H,2H-全氟癸基碘 (8_2 FTI) (1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI)) (CAS No.: 2043-53-0)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	n.d.	-
2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽類 (HFPO-DA and its salts) (2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts)) (CAS No.: 13252-13-6 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.	-
1H,1H,2H,2H-全氟己磺酸 (4:2 FTS) (1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2 FTS)) (CAS No.: 757124-72-4)	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.	-
全氟辛烷磺酰胺乙酸 (FOSAA) (Perfluorooctane sulfonamidoacetic acid (FOSAA)) (CAS No.: 2806-24-8)	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.	-
N-甲基全氟辛烷磺酰胺乙酸(N-MeFOSAA) (N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)) (CAS No.: 2355-31-9)	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.	-
N-乙基全氟辛烷磺酰胺乙酸 (N-EtFOSAA) (N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)) (CAS No.: 2991-50-6)	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.	-
全氟戊磺酸及其鹽類 (PFPeS and its salts) (Perfluoropentane sulfonic acid and its salts (PFPeS and its salts)) (CAS No.: 2706-91-4 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.	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
3-全氟丙基丙酸 (3:3 FTCA) (3-Perfluoropropyl propanoic acid (3:3 FTCA)) (CAS No.: 356-02-5)	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.	-
2-全氟己基乙酸 (6:2 FTCA) (2-Perfluorohexyl ethanoic acid (6:2 FTCA)) (CAS No.: 53826-12-3)	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.	-
3-全氟戊基丙酸 (5:3 FTCA) (3-Perfluoropentyl propanoic acid (5:3 FTCA)) (CAS No.: 914637-49-3)	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.	-
3-全氟庚基丙酸 (7:3 FTCA) (3-Perfluoroheptyl propanoic acid (7:3 FTCA)) (CAS No.: 812-70-4)	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.	-
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 (8_2diPAP and its salts) (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts)) (CAS No.: 678-41-1 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(2-乙氧基乙烷)磺酸 (PFEESA) (Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)) (CAS No.: 113507-82-7)	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.	-
9-氯十六氟-3-氧雜壬烷-1-磺酸 (9Cl-PF3ONS) (9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)) (CAS No.: 756426-58-1)	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.	-
11-氯二十氟-3-氧雜十一烷-1-磺酸 (11Cl-PF3OUdS) (11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)) (CAS No.: 763051-92-9)	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.	-

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測試報告
Test Report

九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
1H,1H,2H,2H-全氟十七烷三甲基氧矽烷 (8:2 FTSi(OC2H5)3) (1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)) (CAS No.: 101947-16-4)	參考CEN/TS 15968: 2010，以氣相層析儀/質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.)	mg/kg	0.1	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. ▲：MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)
   參數換算表 (Parameter Conversion Table)：
   https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
6. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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PAHs Remark：

Δ 德國產品安全委員會(AfPS): GS PAHs 要求
AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第 1 類(Category 1)	第 2 類(Category 2)		第 3 類(Category 3)	
	意圖放入口中的材料或者長時間接觸皮膚(超過 30 秒)的 2009/48/EC 定義的玩具材料和 3 歲以下兒童使用的產品(Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds))	不屬於第 1 類的材料，並意圖或可預見與皮膚接觸逾 30 秒(長期皮膚接觸)或重複的短時間接觸(Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin)		不屬於第 1 類或第 2 類的材料，並意圖或可預見與皮膚接觸不超過 30 秒(短期皮膚接觸)(Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦ 30 seconds))	
		a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)	a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)
Naphthalene	< 1	< 2		< 10	
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
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit)：mg/kg

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PFAS Remark：

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)
(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟丁酸及其鹽類 Perfluorobutane acid and its salts (PFBA and its salts) (CAS No.: 375-22-4 and its salts)	全氟丁酸銨 (PFBA-NH_4) Ammonium perfluorobutanoate (PFBA-NH_4)	10495-86-0
	全氟丁酸鈉 (PFBA-Na) Sodium perfluorobutanoate (PFBA-Na)	2218-54-4
	全氟丁酸鉀 (PFBA-K) Potassium heptafluorobutanoate (PFBA-K)	2966-54-3
	全氟丁酸銀 (PFBA-Ag) Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
全氟丁磺酸及其鹽類 Perfluorobutane sulfonate and its salts (PFBS and its salts) (CAS No.: 375-73-5 and its salts)	全氟丁基磺酸鋰 (PFBS-Li) Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5
	全氟丁基磺酸鎂 (PFBS-Mg) Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3
	全氟丁基磺酸鉀 (PFBS-K) Perfluorobutane Sulfonate K-salt (PFBS-K)	29420-49-3
	全氟丁基磺酸氟 (PFBS-F) Perfluorobutane sulfonyl fluoride (PFBS-F)	375-72-4
	全氟丁基磺酸四乙基銨 (PFBS-N(CH_3CH_2)$_4$) Tetraethylammonium perfluorobutanesulfonate (PFBS-N(CH_3CH_2)$_4$)	25628-08-4
	全氟丁基磺酸三苯基錪 (TPS-PFBS) Triphenylsulfanium perfluorobutane sulfonate (TPS-PFBS)	144317-44-2

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟丁磺酸及其鹽類 Perfluorobutane sulfonate and its salts (PFBS and its salts) (CAS No.: 375-73-5 and its salts)	全氟丁基磺酸二甲基(苯基)硫 Dimethyl(phenyl)sulfanium perfluorobutane sulfonate	220133-51-7
	全氟丁基磺酸四丁基磷 Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate	220689-12-3
	全氟丁基磺醯胺基-N-(甲基)乙醇 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide	34454-97-2
	全氟丁基磺酸嗎啉 Morpholinium perfluorobutanesulfonate	503155-89-3
	全氟丁基磺酸銨 (PFBS-NH4*) Perfluorobutylsulfonamide (PFBS-NH4*)	30334-69-1
	全氟丁基磺酸銨 (PFBS-NH_4) Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH_4)	68259-10-9
	全氟丁基磺酸水合物 NonafluorobutanesulfonicacidHydrate	59933-66-3
	全氟丁基磺酸氯 (PFBS-Cl) Nonafluoro-1-butanesulfonyl chloride (PFBS-Cl)	2991-84-6
	1-(4-丁氧基-1-萘基)四氫噻吩九氟丁烷-1-磺酸鹽 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	-
全氟戊酸及其鹽類 Perfluoropentane acid and its salts (PFPA and its salts) (CAS No.: 2706-90-3 and its salts)	全氟戊酸鈉 (PFPA-Na) Sodium perfluoropentanoate (PFPA-Na)	2706-89-0
	全氟戊酸鈉 (PFPA-Na*) Perfluoropentanoic acid, Sodium Salt (PFPA-Na*)	2483735-37-9
	全氟戊酸鉀 (PFPA-K) Potasium perfluoropentanoate (PFPA-K)	336-23-2
	全氟戊酸銨 (PFPA-NH_4) Ammonium perfluoropentanoate (PFPA-NH_4)	68259-11-0
全氟已酸及其鹽類 Perfluorohexane acid and its salts (PFHxA and its salts) (CAS No.: 307-24-4 and its salts)	全氟已酸銨 (PFHxA-NH_4) Ammonium perfluorohexanoate (PFHxA-NH_4)	21615-47-4
	全氟已酸鈉 (PFHxA-Na) Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己酸及其鹽類 Perfluorohexane acid and its salts (PFHxA and its salts) (CAS No.: 307-24-4 and its salts)	全氟己酸鉀 (PFHxA-K) Potassium perfluorohexanoate (PFHxA-K)	3109-94-2
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	全氟己基磺酸鈉 (PFHxS-Na) Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
	全氟己基磺酸鉀 (PFHxS-K) Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
	全氟己基磺酸銨 (PFHxS-NH_4) Ammonium perfluorohexanesulfonate (PFHxS-NH_4)	68259-08-5
	全氟己基磺酸鋰 (PFHxS-Li) Perfluorohexanesulfonate Li-salt (PFHxS-Li)	55120-77-9
	全氟己基磺酸鋅 (PFHxS-Zn) Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)	70136-72-0
	全氟己基磺醯氟 (PFHxS-F) Perfluorohexanesulfonate sulfonyl fluoride (PFHxS-F)	423-50-7
	三苯基(苯甲基)磷-, 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1000597-52-3
	N,N,N-三丁基-1-丁銨與十三氟-1-己烷磺酸的鹽 N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9
	N,N,N-三乙基乙銨與十三氟-1-己烷磺酸的鹽 (1:1) N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)	108427-55-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與吡咯烷的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)	1187817-57-7

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	N-[4-[[4-(二乙基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-乙基乙銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-24-0
	N-[4-[[4-(二甲基氨基)苯基][4-(乙基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-27-3
	N-[4-[[4-(二甲基氨基)苯基][4-(苯基氨基)-1-萘基]亞甲基]-2,5-環己二-1-基]-N-甲基甲銨,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1310480-28-4
	β-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的化合物 (1:1) Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)	1329995-45-0
	γ-環糊精, 與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸離子(1-)的化合物 (1:1) Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)	1329995-69-8

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苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	三苯基锍,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	144116-10-9
	喹啉鎓,1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基乙烯基)苯基]-1,2,3,3a,4,8b-六氫環戊[b]吲哚-7-基]乙烯基]-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	1462414-59-0
	二苯基碘鎓,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	153443-35-7
	N,N,N-三甲基甲銨與1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸的鹽 (1:1) Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)	189274-31-5
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與2-甲基-2-丙胺的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)	202189-84-2
	雙[4-(1,1-二甲基乙基)苯基]碘鎓, 1,2,2,3,3,4,4,5,5,6,6,6 -十三氟-1-己烷磺酸鹽 (1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	213740-81-9
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鎵鹽 (9CI) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)	341035-71-0

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	雙(4-甲基苯基)苯基硫磺酸1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽(1:1) Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	341548-85-4
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鈧(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釹(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸釔(3+)鹽 (3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
	(硫代二-4,1-亞苯基)雙[二苯基硫鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸 (1:2) Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)	421555-73-9
	雙[4-(1,1-二甲基丙基)苯基]碘鎓鹽與1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸 Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid	421555-74-0
	三[4-(1,1-二甲基乙基)苯基]锍-,1,1,2,2,3,3,4,4,5,5,6,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	425670-70-8

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	十三氟己烷磺酸與二乙醇胺的化合物 Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸與N，N-二乙基乙胺的化合物 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)	72033-41-1
	雙[(1,1-二甲基乙基)苯基]碘鎓鹽-與 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸(1:1) (9CI) Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI)	866621-50-3
	(4-甲基苯基)二苯基锍-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	910606-39-2
	[4-[(2-甲基-1-氧-2-丙烯-1-基)氧基]苯基]二苯基锍-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	911027-68-4
	[4-[(2-甲基-1-氧-2-丙烯-1-基)氧基]苯基]二苯基锍-, 鹽和 1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽(1:1), 2-甲基-2-丙酸2-乙基三環[3.3.1.13,7]癸-2-基，2-甲基-2-丙酸3-羥基三環[3.3.1.13,7]癸-1-基和四氫-2- 2-甲基-2-丙烯酸2-氧-3-呋喃基酯的聚合物 Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟己基磺酸及其鹽類 Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)	1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸銫鹽 (1:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH)	92011-17-1
	二苯並[k,n][1,4,7,10,13]四氧噻吩基環戊二烯鎓,19-[4-（1,1-二甲基乙基）苯基]-6,7,9,10,12,13-六氫-,1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸鹽 (1:1) Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	928049-42-7
全氟庚酸及其鹽類 Perfluoroheptane acid and its salts (PFHpA and its salts) (CAS No.: 375-85-9 and its salts)	全氟庚酸鈉 (PFHpA-Na) Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5
	全氟庚酸鉀 (PFHpA-K) Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
	全氟庚酸銨 (PFHpA-NH_4) Ammonium perfluoroheptanoate (PFHpA-NH_4)	6130-43-4
全氟庚基磺酸及其鹽類 Perfluoroheptane sulfonate and its salts (PFHpS and its salts) (CAS No.: 375-92-8 and its salts)	全氟庚基磺酸鈉 (PFHpS-Na) Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
	1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-十五氟庚烷-1-亞磺酸鈉 sodium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoroheptane-1-sulphinate	68555-66-8
	全氟庚基磺酸鉀 (PFHpS-K) Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
全氟辛烷磺酸及其鹽類 Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH4) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH)2) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2)	70225-14-8

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟辛烷磺酸及其鹽類 Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	全氟辛基磺酸四乙基銨 (PFOS-N(C2H5)4) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C2H5)4)	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
全氟辛酸及其鹽類 Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
全氟壬酸及其鹽類 Perfluorononan-1-oic acid and its salts (PFNA and its salts) (CAS No.: 375-95-1 and its salts)	全氟壬酸鈉 (PFNA-Na) Perfluorononanoate Na-salt (PFNA-Na)	21049-39-8
	全氟壬酸銨 (APFN) Perfluorononanoate ammounium salt (APFN)	4149-60-4
	全氟壬酸鉀 (PFNA-K) Potassium perfluorononanoate (PFNA-K)	21049-38-7

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物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟癸酸及其鹽類 Perfluorodecane acid and its salts (PFDA and its salts) (CAS No.: 335-76-2 and its salts)	全氟癸酸鈉 (PFDA-Na) Perfluorodecanoate Na-salt (PFDA-Na)	3830-45-3
	全氟癸酸氨 (APFDA) Perfluorodecanoate ammonium salt (APFDA)	3108-42-7
全氟十一烷酸及其鹽類 Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No.: 2058-94-8 and its salts)	全氟十一烷酸銨 (PFUnDA-NH_4) Ammonium perfluoroundecanoate (PFUnDA-NH_4)	4234-23-5
	全氟十一烷酸鈉 (PFUnDA-K) Perfluoroundecanoic acid sodium salt (PFUnDA-K)	60871-96-7
全氟十二烷酸及其鹽類 Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts)	全氟十二烷酸銨 (APFDoDA) Ammonium perfluorododecanoate (APFDoDA)	3793-74-6
全氟壬烷磺酸及其鹽類 Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No.: 68259-12-1 and its salts)	全氟壬烷磺酸鈉 (PFNS-Na*) Sodium perfluoro-1-nonanesulfonate (PFNS-Na*)	98789-57-2
	全氟壬烷磺酸銨 (PFNS-NH_4) Ammonium nonadecafluorononanesulphonate (PFNS-NH_4)	17202-41-4
全氟十一烷磺酸及其鹽類 Perfluoroundecane sulfonic acid and its salts (PFUnS and its salts) (CAS No.: 749786-16-1 and its salts)	全氟十一烷磺酸鈉 (PFUnS-Na+) Sodium perfluoroundecane sulfonic (PFUnS-Na+)	-
全氟十二烷磺酸及其鹽類 Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No.: 79780-39-5 and its salts)	全氟十二烷磺酸鈉 (PFDoDS-Na*) Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)	1260224-54-1
全氟十三烷磺酸及其鹽類 Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No.: 791563-89-8 and its salts)	全氟十三烷磺酸鈉 (PFTrDS-Na*) Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)	174675-49-1
全氟癸烷磺酸及其鹽類 Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No.: 126105-34-8, 335-77-3 and its salts)	全氟癸烷磺酸鈉 (PFDS-Na) Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
	全氟癸烷磺酸鉀 (PFDS-K) Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8

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苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

物質濃度分類 (Classification of Substance Concentration)	物質名稱 (Substance Name)	CAS No.
全氟癸烷磺酸及其鹽類 Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No.: 126105-34-8, 335-77-3 and its salts)	全氟癸基磺酸銨 (PFDS-NH_4) Perfluoroaliphatic dean-sulfonate salt of NH_4 (PFDS-NH_4)	67906-42-7
2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其鹽類 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acide and its salts (HFPO-DA and its salts) (CAS No.: 13252-13-6 and its salts)	2,3,3,3-四氟-2-(七氟丙氧基)丙酸鉀 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, K- salts	67118-55-2
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸銨 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, ammonium salts	62037-80-3
	2,3,3,3-四氟-2-(七氟丙氧基)丙酸醯基氟化物 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionicacid, its acyl halides	2062-98-8
2H,2H,3H,3H-全氟癸酸及其鹽類 2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts)	2H,2H,3H,3H-全氟癸酸鉀(H4PFUnA-K) Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)	83310-58-1
全氟戊磺酸及其鹽類 Perfluoropentane sulfonic acid and its salts (PFPeS and its salts) (CAS No.: 2706-91-4 and its salts)	全氟戊磺酸鈉 (PFPeS-Na*) Sodium perfluoro-1-pentanesulfonate (PFPeS-Na*)	630402-22-1
雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts) (CAS No.: 678-41-1 and its salts)	雙(1H,1H,2H,2H-全氟癸基)磷酸酯鈉 (8:2diPAP-Na) Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6

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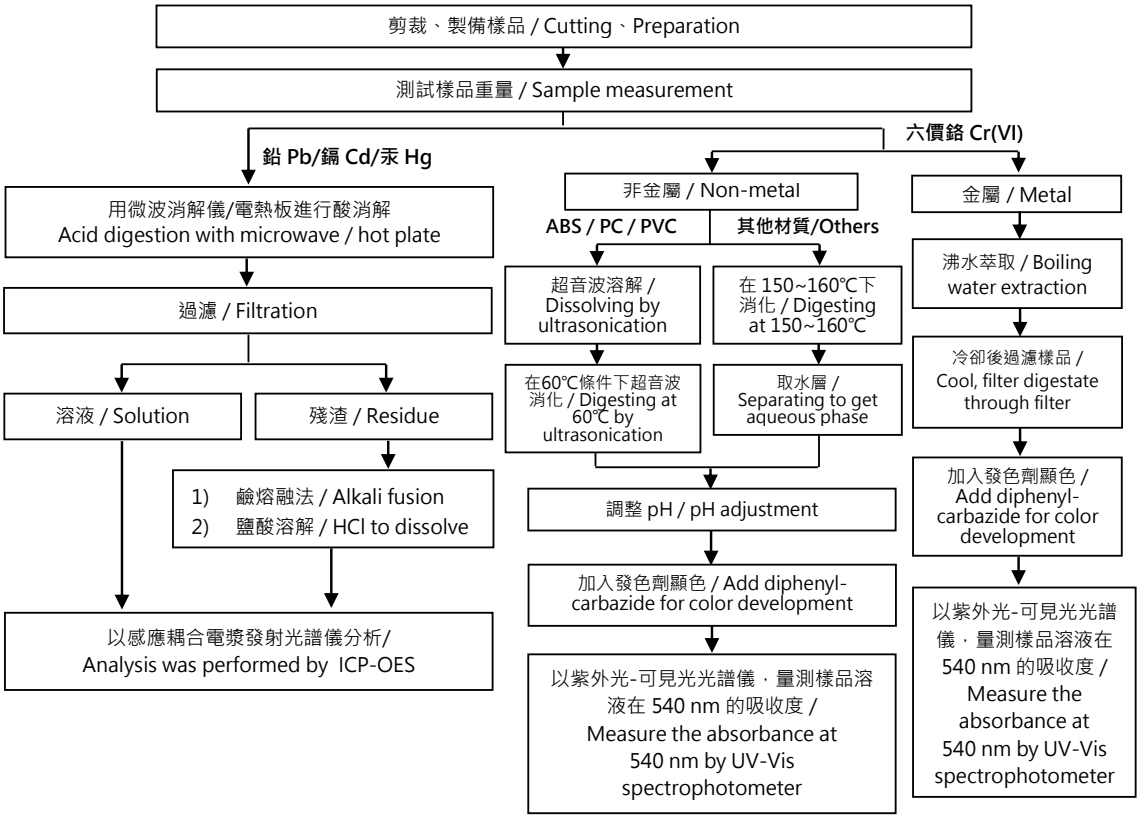
重金屬流程圖 / Analytical flow chart of heavy metal

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.
（Cr^{6+} test method excluded）



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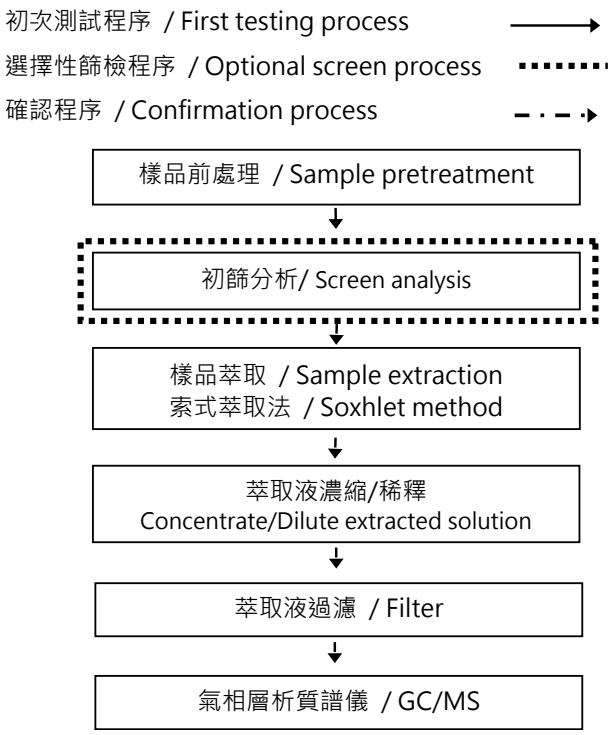
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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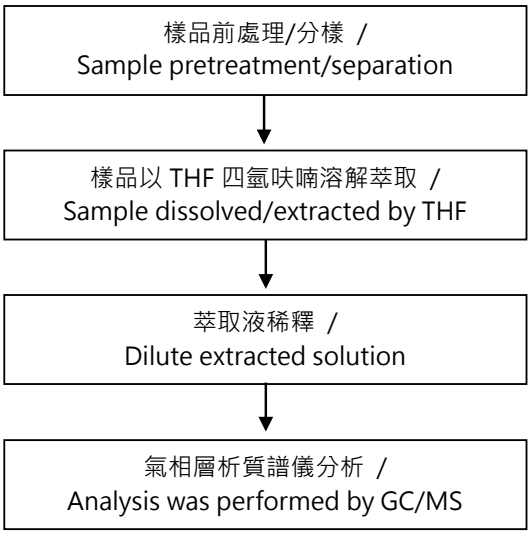
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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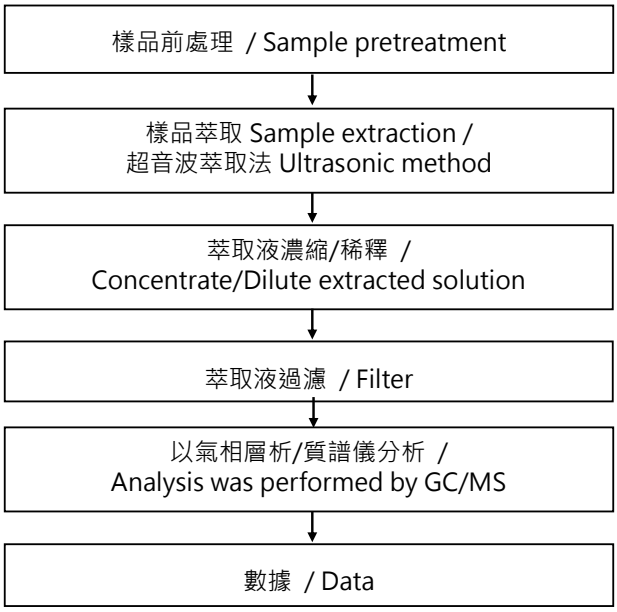
富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate



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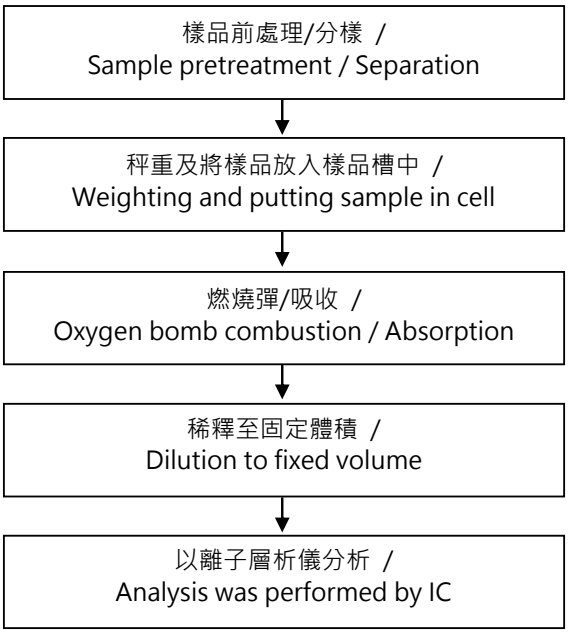
鹵素分析流程圖 / Analytical flow chart - Halogen



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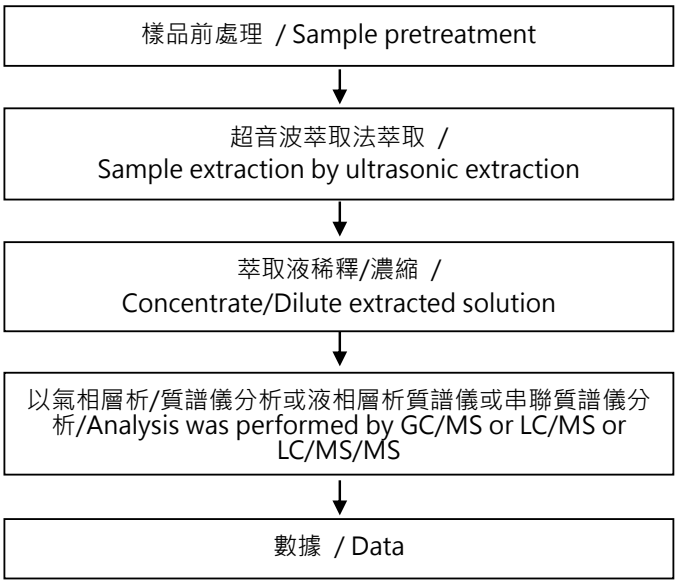
全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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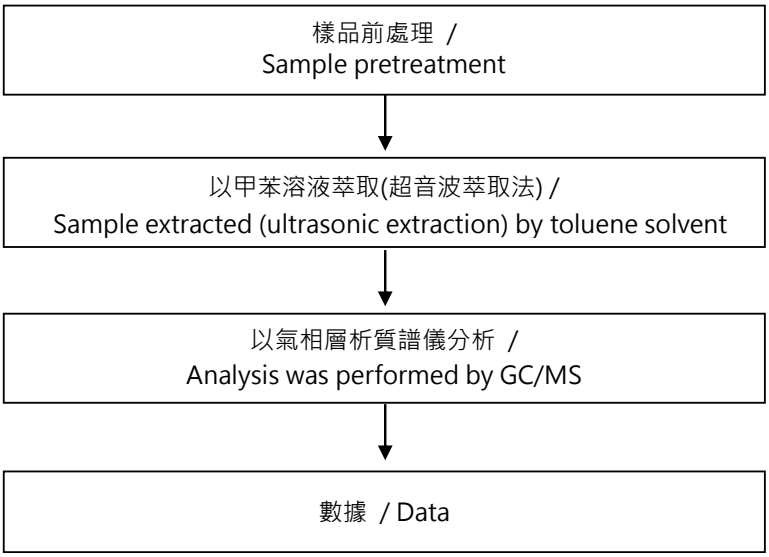
多環芳香烴分析流程圖 /
Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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測試報告
Test Report

九昇企業股份有限公司 (GIOSEN ENTERPRISES CO., LTD.)
苗栗縣竹南鎮公義里6鄰19號 (NO. 19, NEIBOURHOOD 6, GONGYI BOROUGH, JHUNAN TOWNSHIP, MIAOLI COUNTY TAIWAN, R. O. C.)

*** 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.)

ETR23603838



** 報告結尾 (End of Report) **

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Test Report

No.: ETR23105500 Date: 06-Feb-2023

SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By	:	SYMBIO, INC.
Sample Name	:	METALLIZED POLYESTER LABEL
Style/Item No.	:	PO####(6)(#:0-9,A-Z)
Item	:	116

==========

Sample Receiving Date	:	30-Jan-2023
Testing Period	:	30-Jan-2023 to 06-Feb-2023

Test Requested :
(1) 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) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.

Test Results : Please refer to following pages.

Conclusion :
(1) Based on the performed tests on selected part of 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.

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

PIN CODE: 7307EC32

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SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

Test Part Description

No.1 : SILVER COLORED LABEL (EXCLUDING THE RELEASE PAPER)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs		mg/kg	-	n.d.	1000
Monobromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000

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SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	363	-
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-

Note：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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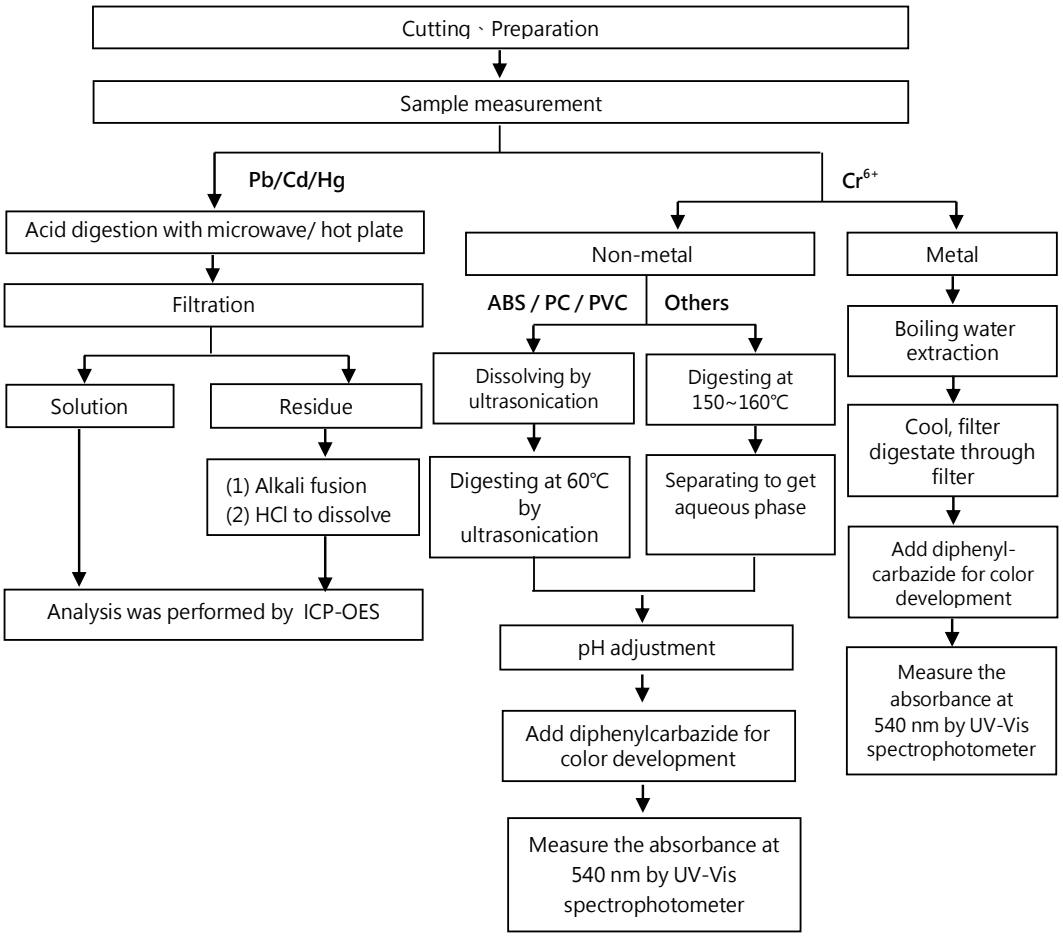
SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr^{6+} test method excluded)



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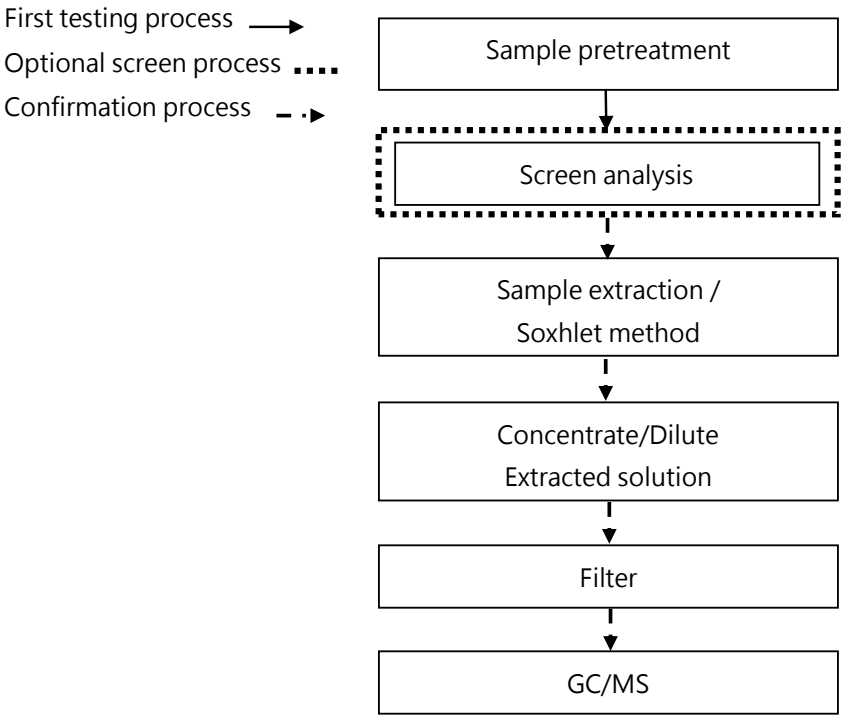
Analytical flow chart – PBBs / PBDEs



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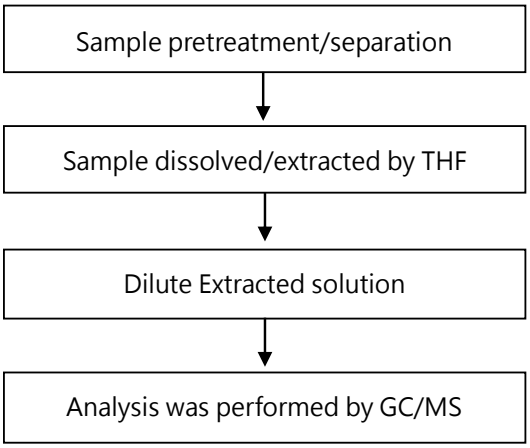
SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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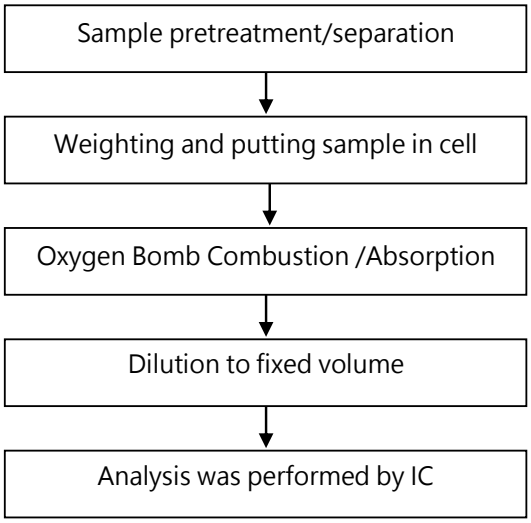
SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

Analytical flow chart of Halogen



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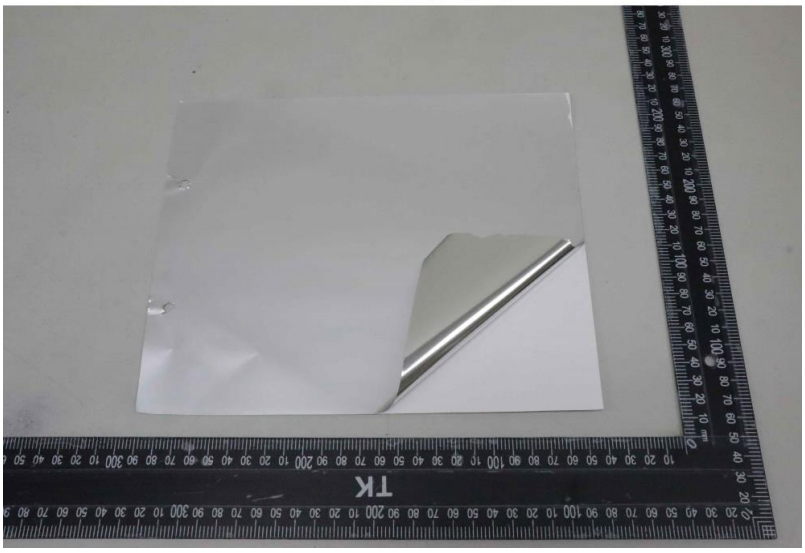
SYMBIO, INC.
NO.12, XINGHUA RD., TAOYUAN DIST., TAOYUAN CITY 330467, TAIWAN (R.O.C.)

*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

ETR23105500



** End of Report **

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Printing Materials - Component

COMPANY

WAI GHA INDUSTRIAL CO LTD
1ST FL
194 TA TUNG RD, SEC 3
HSI CHIH, 221 Taiwan

MH25635

Model No.	Application Surface	Min Temp (°C)	Max Temp (°C)	Indoor Use	Outdoor Use	Additional Conditions
Pressure-sensitive systems:						
Unprinted stock dsg: **WG-72826-MS** **click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	O
	Alkyd paint	-40	150	X	X	O
	Aluminum	-40	150	X	X	O
	Epoxy paint	-40	150	X	X	O
	Galvanized steel	-40	150	X	X	O
	Polyester paint	-40	150	X	X	O
	Porcelain	-40	150	X	X	O
	Stainless steel	-40	150	X	X	O
	Melamine	-40	100	X	X	O
	Nylon - Polyamide	-40	100	X	X	O, G
	Phenolic - Phenol Formaldehyde	-40	100	X	-	O
	Unsaturated polyester - thermoset	-40	100	X	-	O
	Acrylonitrile butadiene styrene	-40	80	X	X	O
	Polycarbonate	-40	80	X	X	O
	Polyphenylene oxide/ether	-40	80	X	-	O
	Polystyrene	-40	80	X	X	O
	Alkyd painted plastic	-40	60	X	-	O

Feedback

	Polyethylene	-	60	X	-	O
Unprinted stock dsg: **WG-7815-MW** **click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	-
	Alkyd paint	-40	150	X	X	-
	Aluminum	-40	150	X	X	-
	Epoxy paint	-40	150	X	X	-
	Galvanized steel	-40	150	X	X	-
	Polyester paint	-40	150	X	X	-
	Polyethylene terephthalate	-40	150	X	X	-
	Porcelain	-40	150	X	X	-
	Stainless steel	-40	150	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-40	100	X	X	-
	Polybutylene terephthalate	-40	100	X	X	-
	Polycarbonate	-40	100	X	X	-
	Polyphenylene sulfide	-40	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	X	-
	Polyphenylene oxide/ether	-40	80	X	X	-
	Polypropylene	-	80	X	-	-
	Polystyrene	-40	80	X	X	-
Printed label dsg: **WG-7816-7878** **click for suitable additional printing inks**	Acrylic paint	-40	100	X	X	-
	Alkyd paint	-40	100	X	X	-
	Aluminum	-40	100	X	X	-
	Epoxy paint	-40	100	X	X	-
	Galvanized steel	-40	100	X	X	-
	Glass	-40	100	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-40	100	X	X	-
	Polybutylene terephthalate	-40	100	X	X	-

Feedback

	Polycarbonate	-40	100	X	X	-
	Polyester paint	-40	100	X	X	-
	Polyethylene terephthalate	-40	100	X	X	-
	Polyvinyl fluoride	-40	100	X	X	-
	Polyvinylidene fluoride	-40	100	X	X	-
	Porcelain	-40	100	X	X	-
	Stainless steel	-40	100	X	X	-
	Polyphenylene oxide/ether	-40	80	X	X	-
	Polypropylene	-23	80	X	X	-
	Polystyrene	-40	80	X	X	-
	Acrylonitrile butadiene styrene	-40	60	X	X	-
Printed label dsg: **WG-7816-BW** **click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	-
	Alkyd paint	-40	150	X	X	-
	Aluminum	-40	150	X	X	-
	Epoxy paint	-40	150	X	X	-
	Galvanized steel	-40	150	X	X	-
	Polyester paint	-40	150	X	X	-
	Polyethylene terephthalate	-40	150	X	X	-
	Porcelain	-40	150	X	X	-
	Stainless steel	-40	150	X	X	-
	Glass	-40	100	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-40	100	X	X	-
	Polybutylene terephthalate	-40	100	X	X	-
	Polycarbonate	-40	100	X	X	-
	Polyvinyl fluoride	-40	100	X	X	-
	Polyvinylidene fluoride	-40	100	X	X	-
	Polyphenylene oxide/ether	-40	80	X	X	-
	Polypropylene	-23	80	X	X	-
	Polystyrene	-40	80	X	X	-

Feedback

	Acrylonitrile butadiene styrene	-40	60	X	X	-
Printed label dsg: **WG-7816-XX click for suitable additional printing inks**	Acrylic paint	-40	60	X	X	-
	Acrylonitrile butadiene styrene	-40	60	X	X	-
	Alkyd paint	-40	60	X	X	-
	Aluminum	-40	60	X	X	-
	Epoxy paint	-40	60	X	X	-
	Galvanized steel	-40	60	X	X	-
	Nylon - Polyamide	-40	60	X	X	-
	Phenolic - Phenol Formaldehyde	-40	60	X	X	-
	Polybutylene terephthalate	-40	60	X	X	-
	Polycarbonate	-40	60	X	X	-
	Polyester paint	-40	60	X	X	-
	Polyethylene terephthalate	-40	60	X	X	-
	Polyphenylene oxide/ether	-40	60	X	X	-
	Polypropylene	-	60	X	-	-
	Polystyrene	-40	60	X	X	-
	Porcelain	-40	60	X	X	-
	Stainless steel	-40	60	X	X	-
Unprinted stock dsg: **WG-7818-7744B** Printed label dsg: **WG-7818-7744** **click for suitable additional printing inks**	Aluminum	-40	125	X	X	-
	Galvanized steel	-40	125	X	X	-
	Polyethylene terephthalate	-40	125	X	X	-
	Stainless steel	-40	125	X	X	O
	Nylon - Polyamide	-40	100	X	X	-
	Polycarbonate	-40	100	X	X	-
	Polyester paint	-40	100	X	X	O
Printed label dsg: **WG-7818-MS** **click for suitable additional printing inks**	Acrylic paint	-	150	X	-	-

Feedback

	Alkyd paint	-	150	X	-	-
	Aluminum	-	150	X	-	-
	Epoxy paint	-	150	X	-	-
	Galvanized steel	-	150	X	-	-
	Polyester paint	-	150	X	-	-
	Polyethylene terephthalate	-40	150	X	X	-
	Porcelain	-	150	X	-	-
	Stainless steel	-	150	X	-	-
	Glass	-40	100	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-	100	X	-	-
	Polybutylene terephthalate	-	100	X	-	-
	Polycarbonate	-	100	X	-	-
	Polyvinyl fluoride	-40	100	X	X	-
	Polyvinylidene fluoride	-40	100	X	X	-
	Polyphenylene oxide/ether	-	80	X	-	-
	Polypropylene	-23	80	X	X	-
	Polystyrene	-	80	X	-	-
	Acrylonitrile butadiene styrene	-	60	X	-	-
Pressure-sensitive systems: Description - printed or unprinted matte silver polyester (PET) facestock with adhesive which is protected by a release liner						
Unprinted stock dsg: **WG-7818U-MSC** Printed label dsg: **WG-7818P-MSC** **click for suitable additional printing inks**	Aluminum	-40	150	X	X	-
	Galvanized steel	-40	150	X	X	-
	Polyester paint	-40	150	X	X	O
	Polyester powder paint	-40	150	X	X	O
	Polyethylene terephthalate	-40	150	X	X	-
	Stainless steel	-40	150	X	X	O
	Liquid crystal polymer	-45	100	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Polycarbonate	-40	100	X	X	-

Feedback

Pressure-sensitive systems: Description - printed white polyester facestock with adhesive which is protected by a release liner						
Printed label dsg: **WG-7871-BP click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	-
	Acrylic powder paint	-40	150	X	X	-
	Alkyd paint	-40	150	X	X	-
	Aluminum	-40	150	X	X	-
	Epoxy paint	-40	150	X	X	-
	Epoxy powder paint	-40	150	X	X	-
	Galvanized steel	-40	150	X	X	-
	Polyester paint	-40	150	X	X	-
	Polyester powder paint	-40	150	X	X	-
	Polyethylene terephthalate	-40	150	X	X	-
	Porcelain	-40	150	X	X	-
	Stainless steel	-40	150	X	X	-
	Urethane powder paint	-40	150	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-40	100	X	X	-
	Polycarbonate	-	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	X	-
	PTFE coated metal	-	80	X	-	-
	Polyphenylene oxide/ether	-40	80	X	X	-
	Polypropylene	-	80	X	-	-
	Polystyrene	-40	80	X	X	-
	Polyvinyl chloride	-40	80	X	-	-
	Zinc plated metal with chromate	-40	80	X	X	-
Pressure-sensitive systems:						
Unprinted stock dsg: **WG-7871-BW click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	-
	Acrylic powder paint	-40	150	X	X	-
	Alkyd paint	-40	150	X	X	-

Feedback

	Aluminum	-40	150	X	X	-
	Epoxy paint	-40	150	X	X	-
	Epoxy powder paint	-40	150	X	X	-
	Galvanized steel	-40	150	X	X	-
	Polyester paint	-40	150	X	X	-
	Polyester powder paint	-40	150	X	X	-
	Polyethylene terephthalate	-40	150	X	X	-
	Porcelain	-40	150	X	X	-
	Stainless steel	-40	150	X	X	-
	Urethane powder paint	-40	150	X	X	-
	Nylon - Polyamide	-40	100	X	X	-
	Phenolic - Phenol Formaldehyde	-40	100	X	X	-
	Polycarbonate	-	100	X	-	-
	PTFE coated metal	-	80	X	-	-
	Polyphenylene oxide/ether	-40	80	X	X	-
	Polypropylene	-	80	X	-	-
	Polystyrene	-40	80	X	X	-
	Zinc plated metal with chromate	-40	80	X	X	-
	Acrylonitrile butadiene styrene	-40	60	X	X	-
	Polyvinyl chloride	-40	60	X	-	-
Unprinted stock dsg: **WG-7875-MP** **click for suitable additional printing inks**	Acrylic paint	-	150	X	-	-
	Alkyd paint	-	150	X	-	-
	Aluminum	-	150	X	-	-
	Epoxy paint	-	150	X	-	-
	Galvanized steel	-	150	X	-	-
	Polyester paint	-	150	X	-	-
	Porcelain	-	150	X	-	-
	Stainless steel	-	150	X	-	-
	Nylon - Polyamide	-	100	X	-	-

Feedback

	Phenolic - Phenol Formaldehyde	-	100	X	-	-
	Polybutylene terephthalate	-	100	X	-	-
	Polycarbonate	-	100	X	-	-
	Polyphenylene oxide/ether	-	80	X	-	-
	Polypropylene	-	80	X	-	-
	Polystyrene	-	80	X	-	-
	Acrylonitrile butadiene styrene	-	60	X	-	-
Printed label dsg: **WG-BH-0-#9H** **click for suitable additional printing inks**	Aluminum	-40	100	X	-	-
	Galvanized steel	-40	100	X	-	-
	Stainless steel	-40	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	-	-
	Nylon - Polyamide	-40	80	X	-	-
	Polycarbonate	-40	80	X	-	-
Printed label dsg: **WG-BH-0-7533** **click for suitable additional printing inks**	Aluminum	-40	100	X	-	-
	Galvanized steel	-40	100	X	-	-
	Stainless steel	-40	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	-	-
	Nylon - Polyamide	-40	80	X	-	-
	Polycarbonate	-40	80	X	-	-
Printed label dsg: **WG-BH-2-#9H** **click for suitable additional printing inks**	Aluminum	-40	100	X	-	-
	Galvanized steel	-40	100	X	-	-
	Stainless steel	-40	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	-	-
	Nylon - Polyamide	-40	80	X	-	-
	Polycarbonate	-40	80	X	-	-

Feedback

Printed label dsg: **WG-BH-2-7533** **click for suitable additional printing inks**	Aluminum	-40	100	X	-	-
	Galvanized steel	-40	100	X	-	-
	Stainless steel	-40	100	X	-	-
	Acrylonitrile butadiene styrene	-40	80	X	-	-
	Nylon - Polyamide	-40	80	X	-	-
	Polycarbonate	-40	80	X	-	-
Pressure-sensitive systems: Description - unprinted matte black polycarbonate facestock with adhesive which is protected by a release liner						
Unprinted stock dsg: **WG-FR700-7533** **click for suitable additional printing inks**	Aluminum	-23	80	X	X	-
	Magnesium	-23	80	X	X	-
	Polycarbonate	-23	80	X	X	-
Pressure-sensitive systems: Description - unprinted white polyester (PET) facestock with adhesive which is protected by a release liner						
Unprinted stock dsg: **WG-HTLW50J-BW** **click for suitable additional printing inks**	Acrylic paint	-20	100	X	-	-
	Epoxy paint	-20	100	X	-	-
	Galvanized steel	-20	100	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polyester paint	-20	100	X	-	-
	Polyphenylene oxide/ether	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-
Pressure-sensitive systems: Description - overprint coated printed white polyester (PET) facestock with adhesive which is protected by a release liner						
Printed label dsg: **WG-HTLW50J-MI** **click for suitable additional printing inks**	Acrylic paint	-20	100	X	-	-
	Epoxy paint	-20	100	X	-	-
	Galvanized steel	-20	100	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polyester paint	-20	100	X	-	-

Feedback

	Polyphenylene oxide/ether	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-
Pressure-sensitive systems: Description - overlaminated printed white polyester (PET) facestock with adhesive which is protected by a release liner						
Printed label dsg: **WG-HTLW50J-MS** **click for suitable additional printing inks**	Acrylic paint	-20	100	X	-	-
	Epoxy paint	-20	100	X	-	-
	Galvanized steel	-20	100	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polyester paint	-20	100	X	-	-
	Polyphenylene oxide/ether	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-
Pressure-sensitive systems:						
Printed label dsg: **WG-K56025-MS, WG-K56275-MS** **click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	O
	Aluminum	-40	150	X	X	O
	Epoxy paint	-40	150	X	X	O
	Galvanized steel	-40	150	X	X	O
	Porcelain	-40	150	X	X	O
	Stainless steel	-40	150	X	X	O
	Alkyd paint	-40	100	X	X	O
	Melamine	-40	100	X	-	O
	Nylon - Polyamide	-40	100	X	-	O
	Phenolic - Phenol Formaldehyde	-40	100	X	-	O
	Polyester paint	-40	100	X	X	O
	Unsaturated polyester - thermoset	-40	100	X	-	O
	Acrylonitrile butadiene styrene	-40	80	X	-	O
	Polycarbonate	-40	80	X	X	O
	Polyphenylene oxide/ether	-40	80	X	-	O

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	Polypropylene	-40	80	X	-	O
	Polystyrene	-40	80	X	-	O
	Alkyd painted plastic	-40	60	X	-	O
	Polyethylene	-	60	X	-	O
Printed label dsg: **WG-K56250-MS** **click for suitable additional printing inks**	Acrylic paint	-40	150	X	X	O
	Aluminum	-40	150	X	X	O
	Epoxy paint	-40	150	X	X	O
	Galvanized steel	-40	150	X	X	O
	Porcelain	-40	150	X	X	O
	Stainless steel	-40	150	X	X	O
	Alkyd paint	-40	100	X	X	O
	Melamine	-40	100	X	-	O
	Nylon - Polyamide	-40	100	X	X	O
	Phenolic - Phenol Formaldehyde	-40	100	X	-	O
	Polyester paint	-40	100	X	X	O
	Unsaturated polyester - thermoset	-40	100	X	-	O
	Acrylonitrile butadiene styrene	-40	80	X	-	O
	Polycarbonate	-40	80	X	X	O
	Polyphenylene oxide/ether	-40	80	X	-	O
	Polypropylene	-40	80	X	-	O
	Polystyrene	-40	80	X	-	O
	Alkyd painted plastic	-40	60	X	-	O
	Polyethylene	-	60	X	-	O
Printed label dsg: **WG-MZ0052-MS** **click for suitable additional printing inks**	Acrylic paint	-20	100	X	-	-
	Epoxy paint	-20	100	X	-	-
	Galvanized steel	-20	100	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polyester paint	-20	100	X	-	-

Feedback

	Polyphenylene oxide/ether	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-
Printed label dsg: **WG-PO3B-MS, WG-PO6B-MS, WG-PO9B-MS** **click for suitable additional printing inks**	Alkyd paint	-23	125	X	-	-
	Aluminum	-23	125	X	-	-
	Stainless steel	-23	125	X	-	-
	Acrylonitrile butadiene styrene	-23	60	X	-	-
	Polystyrene	-23	60	X	-	-
Printed label dsg: **WG-POB7-BW** **click for suitable additional printing inks**	Aluminum	-20	150	X	-	-
	Bare steel	-20	150	X	-	-
	Epoxy paint	-20	150	X	-	-
Printed label dsg: **WG-POB7H-BW** **click for suitable additional printing inks**	Aluminum	-20	150	X	-	-
	Epoxy paint	-20	150	X	-	-
	Polyester paint	-20	150	X	-	-
	Stainless steel	-20	150	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polystyrene	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-
	Acrylonitrile butadiene styrene/Polycarbonate	-20	60	X	-	-
	Polyethylene	-5	60	X	-	-
Printed label dsg: **WG-SY15-PP** **click for suitable additional printing inks**	Alkyd paint	-23	100	X	-	-
	Aluminum	-23	100	X	-	-
	Stainless steel	-23	100	X	-	-
	Acrylonitrile butadiene styrene	-23	60	X	-	-
	Polystyrene	-23	60	X	-	-

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Printed label dsg: **WG-T-HTLW50(EB)-MS click for suitable additional printing inks**	Epoxy paint	-20	100	X	-	-
	Galvanized steel	-20	100	X	-	-
	Polycarbonate	-20	100	X	-	-
	Polyester paint	-20	100	X	-	-
	Acrylic paint	-20	80	X	-	-
	Polyphenylene oxide/ether	-20	80	X	-	-
	Acrylonitrile butadiene styrene	-20	60	X	-	-

Note: Application surfaces are smooth, flat, and rigid unless otherwise specified. Labels suitable for application to two or more plastic or painted surfaces are considered suitable for blends of those plastics or paints, with Conditions of Acceptability common to the individual components in the blend.

G - Occasional exposure to Gasoline splashing.

O - Occasional exposure to Lubricating Oil.

Marking: Company name and model designation and the Recognized Component Mark, .

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