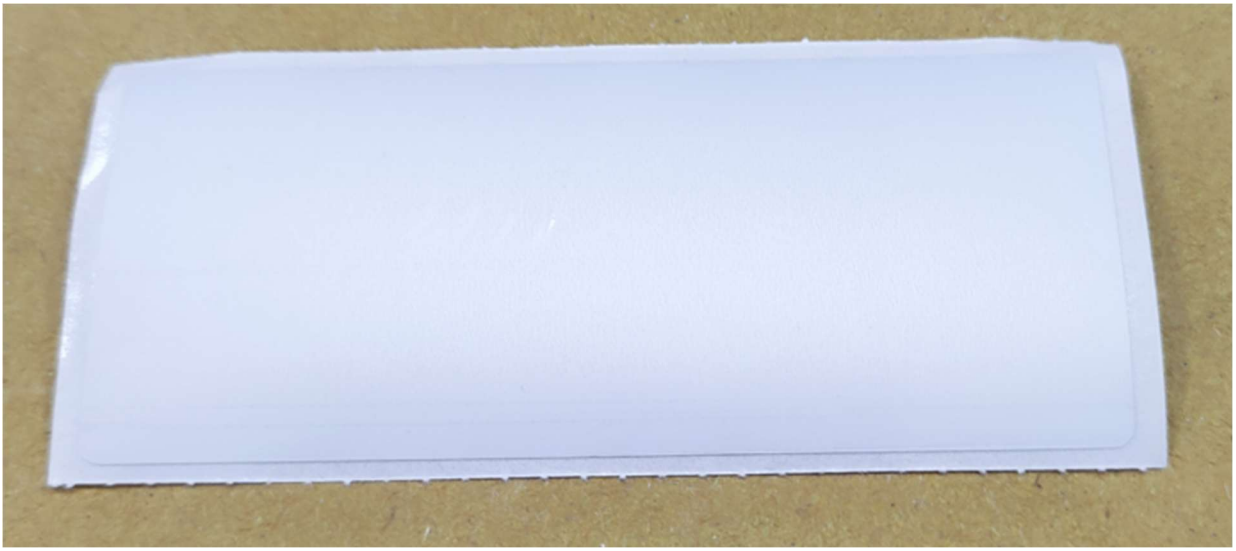


設計驗證
工程課
2025 -03- 26
發行
鈺緯科技開發股份有限公司

承　　認　　書

客戶名稱：鈺緯科技開發股份有限公司

料　　號：3MDL4XLB550(M1478)
DF-4324-0011

日　　期：2025-03-20

客　戶　承　認　單　位　用　印			
主　　管		擔　當　者	
設計驗證 工程課 2025 -03- 26 發行 鈺緯科技開發股份有限公司			
承　製　廠　商	主　管	業　務	制　作
	周淑芳	王鈴雅	王鈴雅

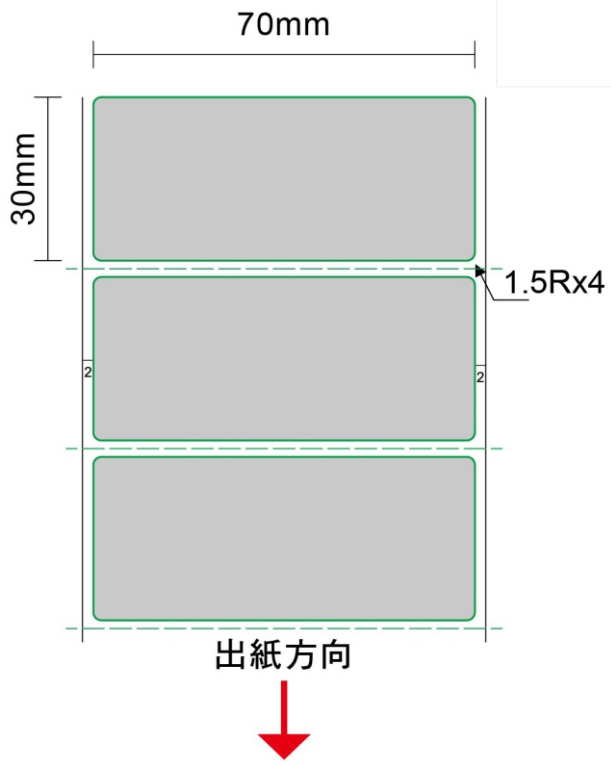
東風印刷企業有限公司
DONG FENG PRINT CO.,LTD

東風印刷企業有限公司

樣品承認書

客戶編號：DF-4324-0011	送樣次數: 第 1 次
料　　號：3MDL4XLB550 (M1478)	
品　　名：	

樣　　品：（本樣品如蒙確認, 請回函壹份）



規格說明：

1.尺寸：70*30mm(1.5R*4) 公差:±0.2mm

2.材質：POLYESTER FILM SILVER MATT LABEL#50 +POLYESTER FILM TRANSPARENT LABEL

3.顏色：Silver

4.安規：UL file No.MH26473(DF-A01,PGJI2)

客戶確認：	業　務：王鈴雅	製　表：王鈴雅

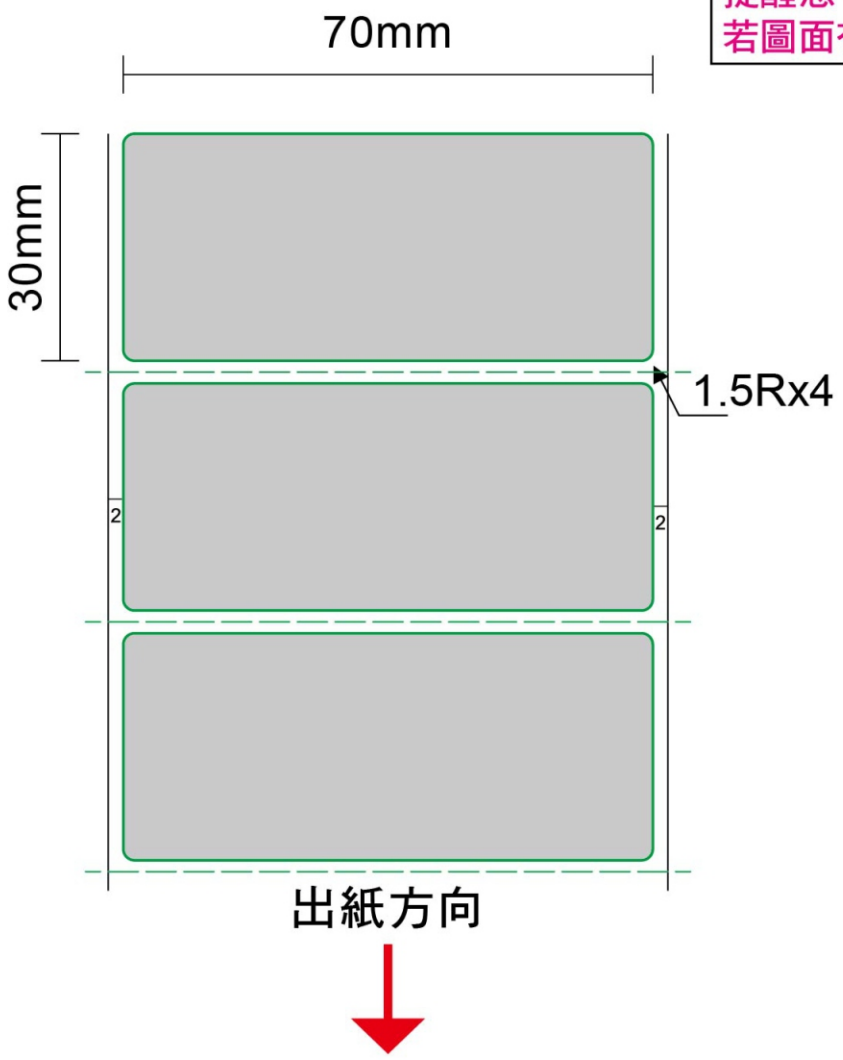
東風印刷企業有限公司
DONGFENG PRINTING ENTERPRISE CO.,LTD.

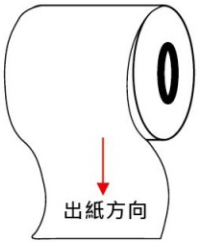
工程圖面

製圖日期	項次	製圖人員	客戶簽名欄	工程確認	
2025.03.14	01	LingYa		採購確認	
變更說明： 新圖發行		版次			
		01			

提醒您，客戶圖面確認且回覆給東風後，東風即可製作模具。
若圖面有變更可能會有費用產生，請知悉，謝謝!

1:1

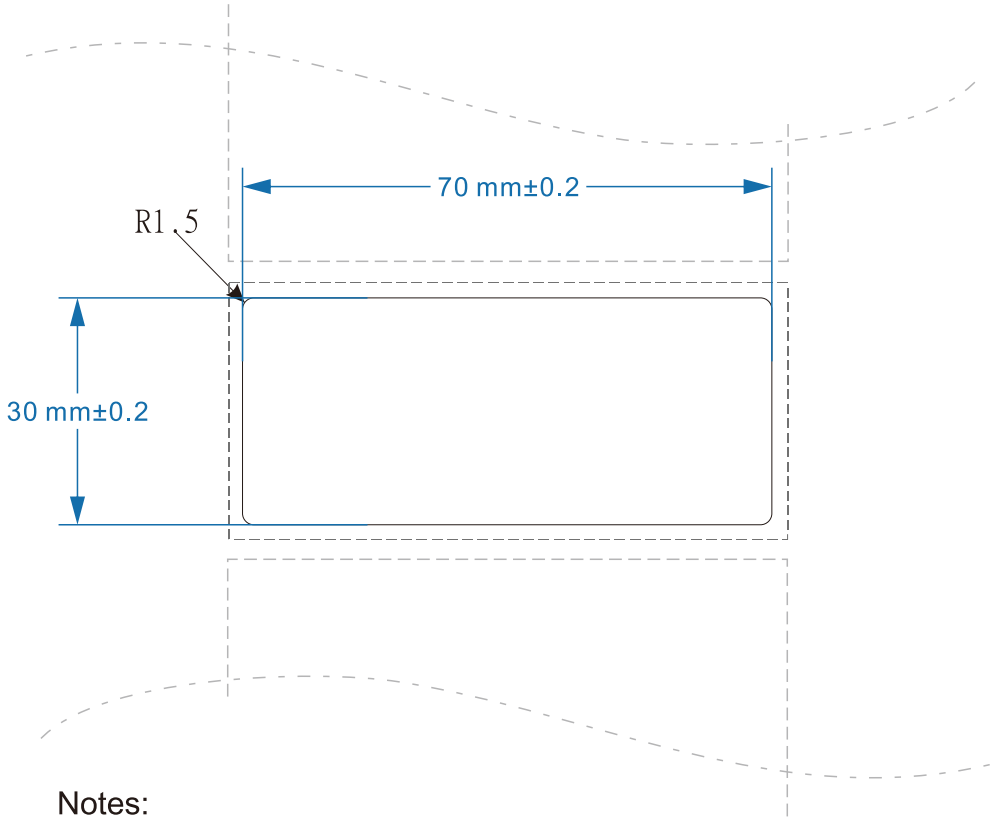




外捲
捲狀出貨

產品尺寸	70x30mm (±0.2)	材質		印刷顏色	裁切方式
綠色線為刀線	1.5Rx4	1.原材: Polyester film silver	1	Silver(材質本色)	○裁片式
產品編號	DF-4324-0011	matt label(50#)+Polyester film	2		●捲狀出貨
客戶料號	3MDL4XLB550 (M1478)	transparent label	3		
品　　名	Label	2.膠質:	4		

REV.	DATE	DESCRIPTION	BY	APVD
1	2020/04/20	change thickness from 0.14mm to 0.1mm	ALBERT	
2	20250319	原廠商沒配合UL認證，變更廠商，更改正負公差	Killy	



Notes:

1. Material: polyester film silver matt label (50#)
   Coated: polyester film transparent label
2. Color: background: silver matt.
   Character: Black
3. Adhesive: acrylic adhesive
4. Material need to meet UL requirements
5. Meet UL second printing standard.
   Only use PGJI2 printed label: DONG FENG PRINTING ENTERPRISE CO LTD DF-A01_MH26473
   Anti Scratch Protective tape. Ricoh #B110CR ribbon.
6. Thickness=0.1mm±0.05mm
7. 需有自動裁切虛線

設計驗證 工程課 2025 -03- 26 發行 鈺緣科技開發股份有限公司

PM / SALES	THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.: COMMON
		MATERIAL: SEE NOTES		TREATMENT: SEE NOTES	
ENG.DEPT / SAFETY	DSGD by KILLy	2025/03/19	PART NAME: MODEL LABEL		
	APVD by	2025/03/24	PART NO.: 3MDL4XLB550		VER.2
	APVD NO.: (M1478)	FILE NAME: 3MDL4XLB550_70X30mm.cdr	DIVA Laboratories, Ltd.		

iq.ul.com

Printing Materials MH26473

Guide Information

DONG FENG PRINTING ENTERPRISE CO LTD

1F No 33 Ln 167 Sec 1 Tonghe E St, Shilin District, Taipei City 111058 TW

unprinted stock dsg: DF-A01, XF-A01 - printed stock dsg: DF-A01, XF-A01

Pressure-sensitive systems

Suitable for additional printing with one or more of the following inks (in the black color unless otherwise indicated):

Thermal transfer ribbon

Ricoh B110A, B110C, B110CX

Application Surface	Max Temp (°C)	Min Temp (°C)	Indoor Use	Outdoor Use	Additional Conditions
Alkyd paint	125	-	Yes	No	-
Aluminum	125	-	Yes	No	-
Stainless steel	125	-	Yes	No	-
Polycarbonate	80	-	Yes	No	-
Acrylonitrile butadiene styrene	60	-	Yes	No	-

Report Date: 1999-08-16

Last Revised: 2014-06-18

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高冠企業股份有限公司
KK ENTERPRISE CO., LTD.

產品規格表
Specification
制訂日期：2019/04/18

代號 Code	TLSM50	品　　名 Article Name	消銀龍商標紙 Electroplating Matt Silver PET Film Label

結構 Construction			
	Face Material	→消銀特多龍	Electroplating Matt Silver PET Film
	Adhesive	→壓克力膠	Acrylic Adhesive
	Liner	→白色銅版離型紙	White Art Paper Release Liner

項目 Item		單位 Unit	數據 Data	測試方法 Test Method
面材 Face Material	厚　度 Thickness	mm	0.050±0.010	ASTM D-1000
	基　重 Basis Weight	g/m^2	70±5	
黏膠 Adhesive	上膠厚度 Coat Thickness	mm	0.026±0.005	ASTM D-1000
	初期力 Initial Tack	cm	18 ↓	PSTC-6
	黏著力 Peel Adhesion	kgf/25mm	0.8 ↑	PSTC-1
	剝離力 Release Force	gf/25mm	6~20	PSTC-8
	保持力 Holding Power	hour/20×20mm/kgf	8 ↑	PSTC-7
底紙 Liner	厚　度 Thickness	mm	0.143±0.008	ASTM D-1000
	基　重 Basis Weight	g/m^2	150±8	
UL 認證溫度 UL Rating Temperature		℃	Min.:-20 / Max:125	UL 969
使用溫度 Service Temperature		℃	-20~+150	
最適貼標溫度 Ideal Application Temperature		℃	+10~+40	
保存期限 Storage life		months	12	
保存環境 Storage Condition		儲存在乾燥處，避免陽光直射及遠離所有的熱源。理想的條件為23℃和 50%的相對濕度。 Store in a dry location out of direct sunlight and away from all sources of heat. Ideal conditions are 23℃ and 50% relative humidity.		
備註 Remark		UL File MH13600		

以上技術資料為本公司採用公認可靠之檢驗方法，經長期檢驗所得之平均數據，不做產品驗收之用。我司產品的品質管控係依據產品規格書上所敘述之產品規範，在實際應用時可能會有所差異。請客戶使用前務必先行了解，產品貼著目的與使用相關要求之條件，進行確認無虞後再使用。除非雙方針對特殊使用條件，另外訂立書面契約，否則產品經加工後為複合材料，我司不予承認相關額外損失費用。
The above mentioned technical data is based on long-term test by KK and should be for reference only, not for inspection purpose. KK's product quality control is in accordance with the specifications described in the product specification.
Before using this product, you must evaluate it and determine if it is suitable for your intended application. For specific applications have to be record by written document and agreed on both sides, otherwise KK will not accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

Test Report

No.: ETR24A01365 Date: 01-Nov-2024

KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

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

Sample Submitted By	:	KK ENTERPRISE CO., LTD.
Sample Name	:	ELECTROPLATING MATT SILVER POLYESTER FILM LABEL(消銀色特多龍(聚酯膜)商標紙)
Style/Item No.	:	PLEASE REFER TO PAGE 2

==========

Sample Receiving Date	:	01-Oct-2024 and 09-Oct-2024
Testing Period	:	01-Oct-2024 to 17-Oct-2024

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 PAHs and other item(s).
Test Results	:	Please refer to following pages.
Conclusion	:	(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

PIN CODE: D4B48628

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Style/Item No. :

BTLSM50、BTLSM50E、BTLSMB、BTLSMI150E、DL26、E-HMTLSM50、E-HMTLSM50+100、E-HMTLSM75、E-HMTLSMI、EHMTLSMI50、E-HMTLSMI50+100、E-HTLSM(BL)、E-HTLSM100#8、E-HTLSM50#1R、E-HTLSM50#8、E-HTLSM50(BL)、EHTLSM50+100、E-HTLSM75、E-HTLSM75(BL)、E-HTLSMI#1R、E-HTLSMI(BL)、E-HTLSMI50#1R、E-HTLSMI50(BL)、EHTLSMI50+100、E-HTLSMI50+100E、TLSMI75、E-HTLSMI50+RP、E-HTLSMI75(BL)、E-HTLSMI75(I)、E-HTLSMIJ、EHTLSMIJ(BL)、E-HTLSMIJ50+100、E-MTLSM、E-MTLSM50、E-MTLSM75、E-MTLSMI、E-MTLSMI50、E-MTLSMI50+100、ERTLSM、E-TLSM100#1R、E-TLSM50、E-TLSM50+100、E-TLSM50+50、E-TLSM75、E-TLSM75#9H、E-TLSM75E、E-TLSMI、E-TLSMI#6R、E-TLSMI#8、E-TLSMI#9H、E-TLSMI1、E-TLSMI50#1R、E-TLSMI50+100、E-TLSMI50+100E、ETLSMI50+50、E-TLSMI50E、E-TLSMI50UL、E-TLSMI75、E-TTLSMI+TLT、E-TTLSMI+TLTJ、HITLSMI、HMTLSMI100、HMTLSMI50、HMTLSMI75、HTLD-3M、HTLSM、HTLSM100、HTLSM100#9、HTLSM50、HTLSM50#17、HTLSM50#2R、HTLSM50#34、HTLSM50#9、HTLSM5008#2、HTLSM50BL#2、HTLSM50BL#27、HTLSM75、HTLSM75#34、HTLSM75BL#2、HTLSM75BL#27、HTLSMA50#34、HTLSMBBL、HTLSMI、HTLSMI(A)、HTLSMI100、HTLSMI150#21、HTLSMI4101J、HTLSMI50、HTLSMI50#1R2、HTLSMI50#34、HTLSMI50#9L、HTLSMI50(A)、HTLSMI50A、HTLSMI50J、HTLSMI75、HTLSMI75#34、HTLSMI95、HTLSMIJ、HTLSMIJ50、HTLSMIJB50、HTLVSM25、HZTLSMI50、HZTLSMI50E、L623、RHTLSM50BL#9、RHTLSM75BL#9、HMTLSM、HMTLSM100、HMTLSM50、HMTLSM50#1R、HMTLSM75、HMTLSM75#1R、HMTLSMI、HMTLSMI#1R、E-MHTLSMI50HMTLSMI100、HMTLSMI50、HMTLSMI50#1R、HTLSMHTLSM50#1R、HTLSM50#55、HTLSM50(BL)、VL12、HTLSM50BL、HTLSM75、HTLSM75#1R、HTLSM75(BL)、HTLSM75BL、HTLSMB、HTLSMI、HTLSMI(A)、HTLSMI(BL)、HTLSMI100、HTLSMI150H、HTLSMI50#1R、HTLSMI50#1R2、HTLSMI50#1RA、HTLSMI50(A)、HTLSMI50(A1)、HTLSMI50(BL)、HTLSMI50H、VL08、HTLSMI50J#1RA、HTLSMI50J#9、HTLSMI75、HTLSMIBL、HTLSMIHE、HTLSMIJ50、HTLSMIJ50#34、HTLSMIJ50#9、HTLSMIJ50(BL)、HTLVSMI、MTLSM、MTLSM100、MTLSM50、MTLSM75、MTLSMI、MTLSMI100、R2HTLSMIBL、MTLSMI50、MTLSMI75、TLSM50、TLSMI+100、L625、TLSMI1、TLSMI150、TLSMI50+125、TLSMI50+TLT100、TLSMI50H、TTLSMI50、WTLVS25J、TLD-3M、TLSM、TLSM+150、TLSM100、TLSM150、TLSM50、TLSM50#9、TLSM75、TLSMB、TLSMB50、TLSMI、TLSMI#1、TLSMI+150、TLSMI02#1、TLSMI03#17、TLSMI1、TLSMI1#9、TLSMI12#17、TLSMI150、TLSMI1A、TLSMI50、TLSMI50+100、TLSMIHE、TLVSM25、TTLSMI50、E-MHTLSMIJ50、VTLSM#2R、VTLSMI01、VTLSMI1、VTLSMI50JE#9、X1-HTLSM50、HMTLSMI50、ZTLSMI、TLSMI102、E-HTLSMI+RP、E-HTLSM38、E-HTLSMI50#1R、E-MTLSMI50+50、E-HMTLSMI100、E-TLSMI#9H、E-TLSMI1J、E-HTLSMI50#1R、E-MHTLSMI75、E-MHTLSM100、KSPTLSMI50、E-TLSMI#9GY、E-TLSMI#9HB、E-HTLSMI50#3R、HTLSMIJ、E-MHTLSM50、HTLSMB、HTLSMB50(EB)、HTLSMB75、HTLSMB100、HTLSMI75、HTLSMI100

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Part Description

No.1 : YELLOW PASTE - ETR24903706V01
No.2 : YELLOW PASTE - ETR24A03092
No.3 : YELLOW GLUE (DRY BASE) - ETR24A00166
No.4 : COLORLESS TRANSPARENT PASTE - ETR24903707
No.5 : COLORLESS TRANSPARENT PASTE - ETR24A03093
No.6 : TRANSPARENT GLUE (DRY BASE) - ETR24A00167
No.7 : SILVER FILM - ETR24903733
No.8 : SILVER FILM - ETR24A03119
No.9 : SILVER COLORED FILM - ETR24A00193

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	1000
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	---	---	n.d.	---	1000

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Polybrominated biphenyls (PBB)	With reference to IEC 62321-12: 2023, analysis was performed by GC/MS.	mg/kg	-	n.d.	---	---	n.d.	---	1000
Monobrominated biphenyl (MonoBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Dibrominated biphenyl (DiBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tribrominated biphenyl (TriBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tetrabrominated biphenyl (TetraBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Pentabrominated biphenyl (PentaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Hexabrominated biphenyl (HexaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Heptabrominated biphenyl (HeptaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Octabrominated biphenyl (OctaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Nonabrominated biphenyl (NonaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Decabrominated biphenyl (DecaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Polybrominated diphenyl ethers (PBDE)		mg/kg	-	n.d.	---	---	n.d.	---	1000
Monobrominated diphenyl ether (MonoBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Dibrominated diphenyl ether (DiBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tribrominated diphenyl ether (TriBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tetrabrominated diphenyl ether (TetraBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Pentabrominated diphenyl ether (PentaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Hexabrominated diphenyl ether (HexaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Heptabrominated diphenyl ether (HeptaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Octabrominated diphenyl ether (OctaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Nonabrominated diphenyl ether (NonaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Decabrominated diphenyl ether (DecaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Di-2-Ethyl Hexyl Phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	---	---	n.d.	---	1000
Benzyl Butyl Phthalate (BBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Dibutyl Phthalate (DBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Diisobutyl Phthalate (DIBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Fluorine (F)	With reference to EN 14582: 2016, analysis was performed by IC.	mg/kg	20	n.d.	---	---	n.d.	---	-
Chlorine (Cl)		mg/kg	50	n.d.	---	---	n.d.	---	-
Bromine (Br)		mg/kg	50	n.d.	---	---	n.d.	---	-
Iodine (I)		mg/kg	50	n.d.	---	---	n.d.	---	-
Diisononyl Phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	n.d.	-
Di-n-Octyl Phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diisodecyl Phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	---	n.d.	---	---	n.d.	-
Bis(2-methoxyethyl)phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	---	n.d.	---	---	n.d.	-
Di-n-Hexyl Phthalate (DnHP) (CAS No.: 84-75-3)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dipentyl Phthalate (DPENP/DnPP) (CAS No.: 131-18-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dimethyl Phthalate (DMP) (CAS No.: 131-11-3)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diethyl Phthalate (DEP) (CAS No.: 84-66-2)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dicyclohexyl Phthalate (DCHP) (CAS No.: 84-61-7)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dinonyl Phthalate (DNP) (CAS No.: 84-76-4)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diisopentyl Phthalate (DIPP) (CAS No.: 605-50-5)		mg/kg	50	---	n.d.	---	---	n.d.	-
n-pentyl Isopentyl Phthalate (nPIPP) (CAS No.: 776297-69-9)		mg/kg	50	---	n.d.	---	---	n.d.	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	n.d.	-
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters (DHNUP) (CAS No.: 68515-42-4)		mg/kg	50	---	n.d.	---	---	n.d.	-
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	---	---	n.d.	---	---	-
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	---	---	n.d.	---	---	-
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))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	---	---	n.d.	---	---	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	---	---	n.d.	---	---	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	---	---	Negative	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Polycyclic Aromatic Hydrocarbons (PAHs)									
Benzo[a]pyrene (CAS No.: 50-32-8)	With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.	mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[e]pyrene (CAS No.: 192-97-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[a]anthracene (CAS No.: 56-55-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[b]fluoranthene (CAS No.: 205-99-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[j]fluoranthene (CAS No.: 205-82-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[k]fluoranthene (CAS No.: 207-08-9)		mg/kg	0.2	---	---	n.d.	---	---	-
Chrysene (CAS No.: 218-01-9)		mg/kg	0.2	---	---	n.d.	---	---	-
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)		mg/kg	0.2	---	---	n.d.	---	---	-
Anthracene (CAS No.: 120-12-7)		mg/kg	0.2	---	---	n.d.	---	---	-
Fluoranthene (CAS No.: 206-44-0)		mg/kg	0.2	---	---	n.d.	---	---	-
Phenanthrene (CAS No.: 85-01-8)		mg/kg	0.2	---	---	n.d.	---	---	-
Pyrene (CAS No.: 129-00-0)		mg/kg	0.2	---	---	n.d.	---	---	-
Naphthalene (CAS No.: 91-20-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Sum of 15 PAHs		mg/kg	-	---	---	n.d.	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	---	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	---	-
Antimony trioxide (Sb_2O_3) (CAS No.: 1309-64-4)	Calculated from the result of Antimony.	mg/kg	2▲	---	---	n.d.	---	---	-

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	---	---	n.d.	-
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	---	---	n.d.	-
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))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	---	---	n.d.	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	n.d.	---	---	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative	---	---	Negative	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Polycyclic Aromatic Hydrocarbons (PAHs)								
Benzo[a]pyrene (CAS No.: 50-32-8)	With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.	mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[e]pyrene (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[a]anthracene (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[b]fluoranthene (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[j]fluoranthene (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[k]fluoranthene (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	---	---	n.d.	-
Chrysene (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	---	---	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	---	---	n.d.	-
Anthracene (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	---	---	n.d.	-
Fluoranthene (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	---	---	n.d.	-
Phenanthrene (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	---	---	n.d.	-
Pyrene (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	---	---	n.d.	-
Naphthalene (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Sum of 15 PAHs		mg/kg	-	n.d.	---	---	n.d.	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	125	-
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	1000
Mercury (Hg)	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)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	---	n.d.	---	---	1000

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Polybrominated biphenyls (PBB)	With reference to IEC 62321-12: 2023, analysis was performed by GC/MS.	mg/kg	-	---	n.d.	---	---	1000
Monobrominated biphenyl (MonoBB)		mg/kg	25	---	n.d.	---	---	-
Dibrominated biphenyl (DiBB)		mg/kg	25	---	n.d.	---	---	-
Tribrominated biphenyl (TriBB)		mg/kg	25	---	n.d.	---	---	-
Tetrabrominated biphenyl (TetraBB)		mg/kg	25	---	n.d.	---	---	-
Pentabrominated biphenyl (PentaBB)		mg/kg	25	---	n.d.	---	---	-
Hexabrominated biphenyl (HexaBB)		mg/kg	25	---	n.d.	---	---	-
Heptabrominated biphenyl (HeptaBB)		mg/kg	25	---	n.d.	---	---	-
Octabrominated biphenyl (OctaBB)		mg/kg	25	---	n.d.	---	---	-
Nonabrominated biphenyl (NonaBB)		mg/kg	25	---	n.d.	---	---	-
Decabrominated biphenyl (DecaBB)		mg/kg	25	---	n.d.	---	---	-
Polybrominated diphenyl ethers (PBDE)		mg/kg	-	---	n.d.	---	---	1000
Monobrominated diphenyl ether (MonoBDE)		mg/kg	25	---	n.d.	---	---	-
Dibrominated diphenyl ether (DiBDE)		mg/kg	25	---	n.d.	---	---	-
Tribrominated diphenyl ether (TriBDE)		mg/kg	25	---	n.d.	---	---	-
Tetrabrominated diphenyl ether (TetraBDE)		mg/kg	25	---	n.d.	---	---	-
Pentabrominated diphenyl ether (PentaBDE)		mg/kg	25	---	n.d.	---	---	-
Hexabrominated diphenyl ether (HexaBDE)		mg/kg	25	---	n.d.	---	---	-
Heptabrominated diphenyl ether (HeptaBDE)		mg/kg	25	---	n.d.	---	---	-
Octabrominated diphenyl ether (OctaBDE)		mg/kg	25	---	n.d.	---	---	-
Nonabrominated diphenyl ether (NonaBDE)		mg/kg	25	---	n.d.	---	---	-
Decabrominated diphenyl ether (DecaBDE)		mg/kg	25	---	n.d.	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Di-2-Ethyl Hexyl Phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	1000
Benzyl Butyl Phthalate (BBP)		mg/kg	50	---	n.d.	---	---	1000
Dibutyl Phthalate (DBP)		mg/kg	50	---	n.d.	---	---	1000
Diisobutyl Phthalate (DIBP)		mg/kg	50	---	n.d.	---	---	1000
Fluorine (F)	With reference to EN 14582: 2016, analysis was performed by IC.	mg/kg	20	---	n.d.	---	---	-
Chlorine (Cl)		mg/kg	50	---	n.d.	---	---	-
Bromine (Br)		mg/kg	50	---	n.d.	---	---	-
Iodine (I)		mg/kg	50	---	n.d.	---	---	-
Diisononyl Phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	---	n.d.	---	-
Di-n-Octyl Phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	---	---	n.d.	---	-
Diisodecyl Phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	---	---	n.d.	---	-
Bis(2-methoxyethyl)phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	---	---	n.d.	---	-
Di-n-Hexyl Phthalate (DnHP) (CAS No.: 84-75-3)		mg/kg	50	---	---	n.d.	---	-
Dipentyl Phthalate (DPENP/DnPP) (CAS No.: 131-18-0)		mg/kg	50	---	---	n.d.	---	-
Dimethyl Phthalate (DMP) (CAS No.: 131-11-3)		mg/kg	50	---	---	n.d.	---	-
Diethyl Phthalate (DEP) (CAS No.: 84-66-2)		mg/kg	50	---	---	n.d.	---	-
Dicyclohexyl Phthalate (DCHP) (CAS No.: 84-61-7)		mg/kg	50	---	---	n.d.	---	-
Dinonyl Phthalate (DNP) (CAS No.: 84-76-4)		mg/kg	50	---	---	n.d.	---	-
Diisopentyl Phthalate (DIPP) (CAS No.: 605-50-5)		mg/kg	50	---	---	n.d.	---	-
n-pentyl Isopentyl Phthalate (nPIPP) (CAS No.: 776297-69-9)		mg/kg	50	---	---	n.d.	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	---	n.d.	---	-
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters (DHNUP) (CAS No.: 68515-42-4)		mg/kg	50	---	---	n.d.	---	-
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)		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. "---" = Not Conducted
6. **= Qualitative analysis (No Unit)
7. Negative = Undetectable ; Positive = Detectable
8. ▲ : The MDL was evaluated for element / tested substance.
   Conversion Formula : AX = A × F

AX	A	F
Antimony trioxide (Sb_2O_3)	Antimony	1.1971

   Parameter Conversion Tab:https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. No.3 and No.6: The sample(s) was/were tested after drying at 105 ℃ for 2 hours.
10. 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.
11. This report is combined with 9 copies of test reports which provided by client.

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

PAHs Remark：

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

Parameter	Category 1	Category 2		Category 3	
	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).	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.		Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦30 seconds).	
		a. Use by children under 14	b. Other consumer products	a. Use by children under 14	b. 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
Sum of 15 PAH	< 1	< 5	< 10	< 20	< 50

Unit：mg/kg

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PFAS Remark：

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.)

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$)	70225-14-8
	Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	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
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	Perfluorooctanesulfonate (anion)	45298-90-6
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-$N(C_2H_5)_3$)	54439-46-2
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(CH_3)_4$)	56773-44-5
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4

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NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
	Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-$Cr(3^+)$)	68141-02-6
	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H_2O)$_2$)	98065-31-7
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C_5H_5N)	95658-47-2
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6

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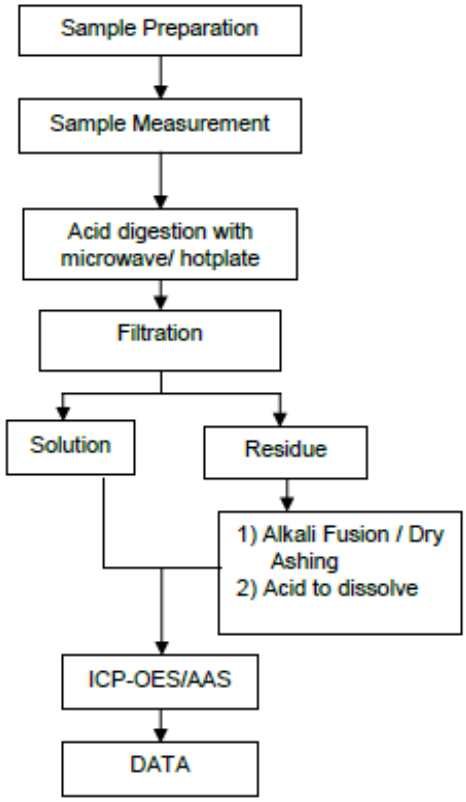
KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Elements Testing Flow Chart

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



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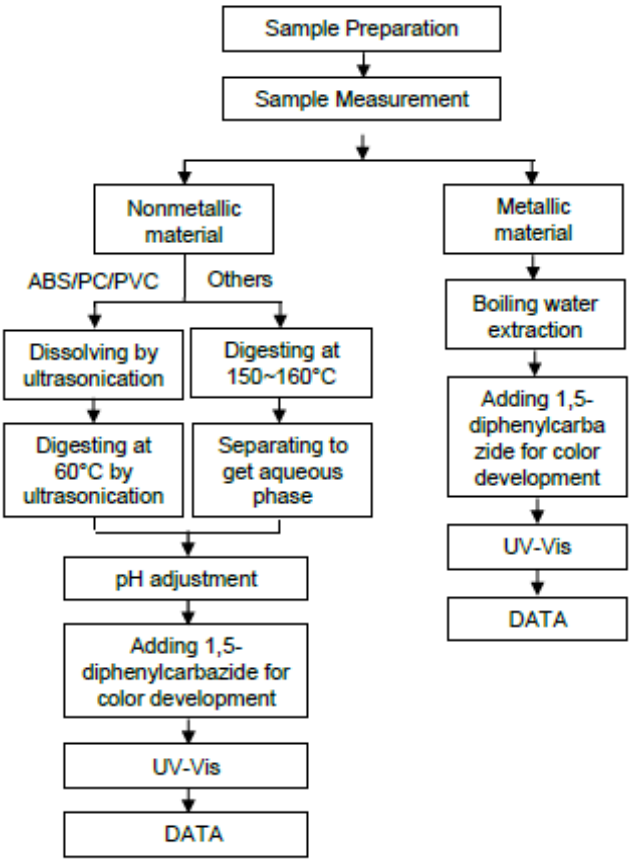
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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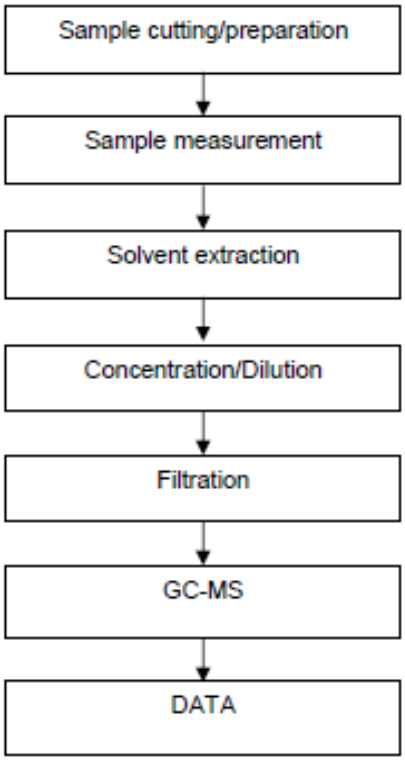
PBB/PBDE/Phthalates Testing Flow Chart



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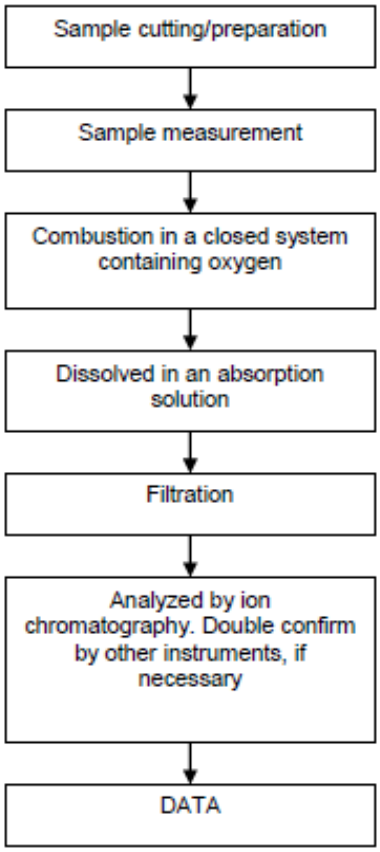
Halogen Testing Flow Chart



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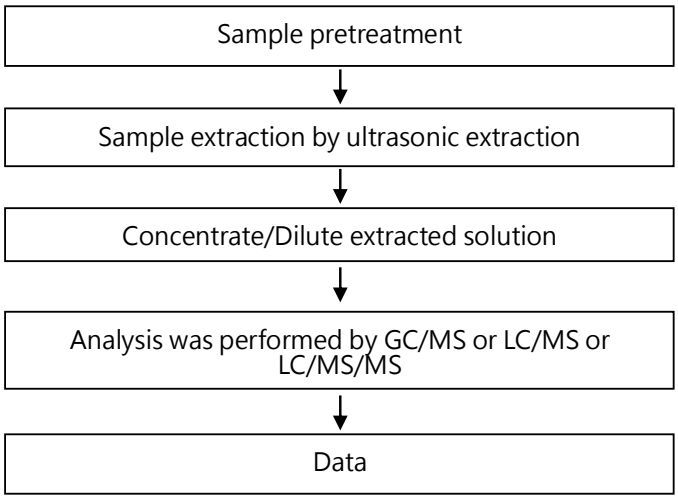
Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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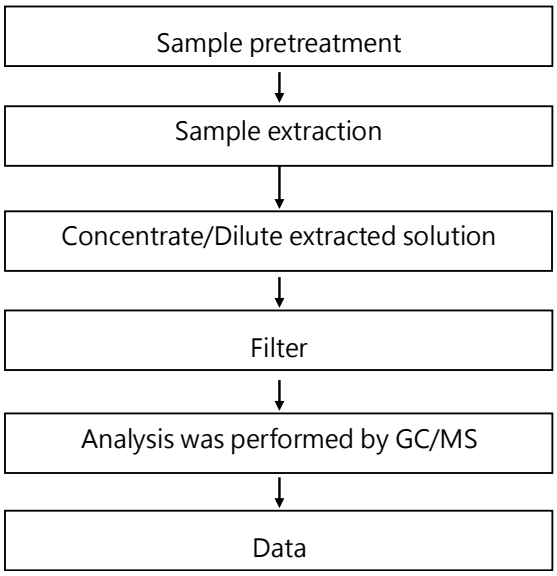
Analytical flow chart - HBCDD



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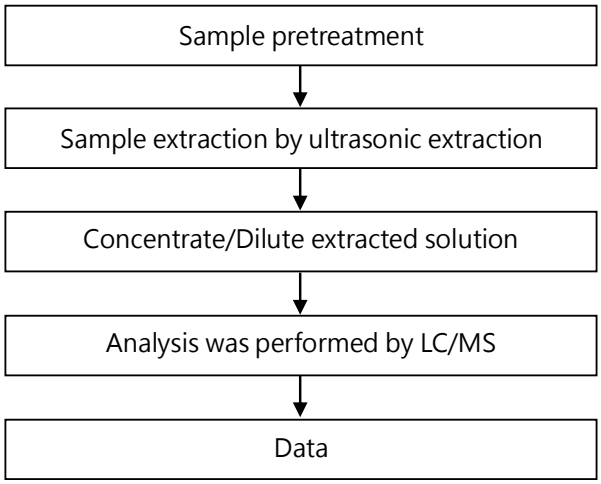
Analytical flow chart - TBBP-A



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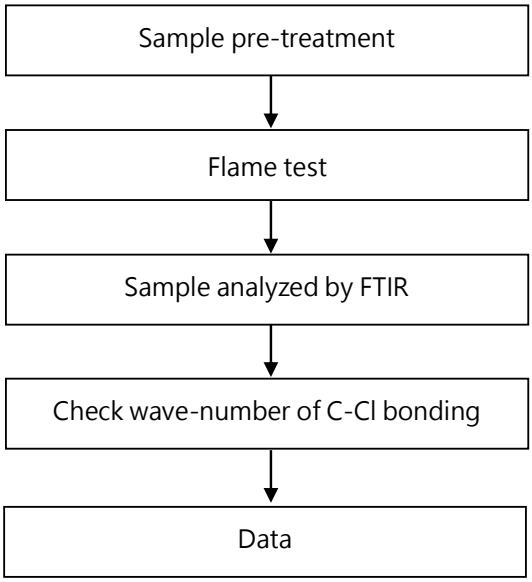
Analysis flow chart - PVC



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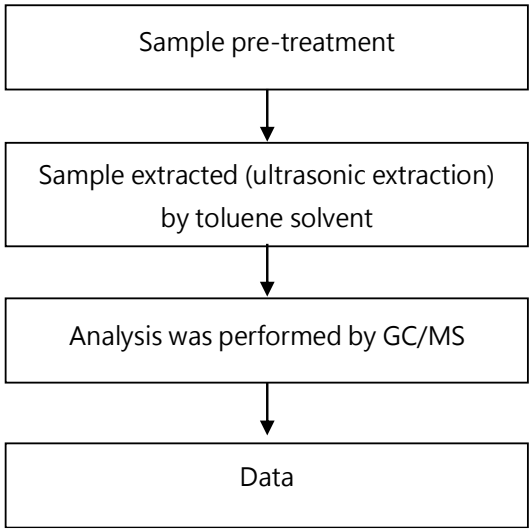
Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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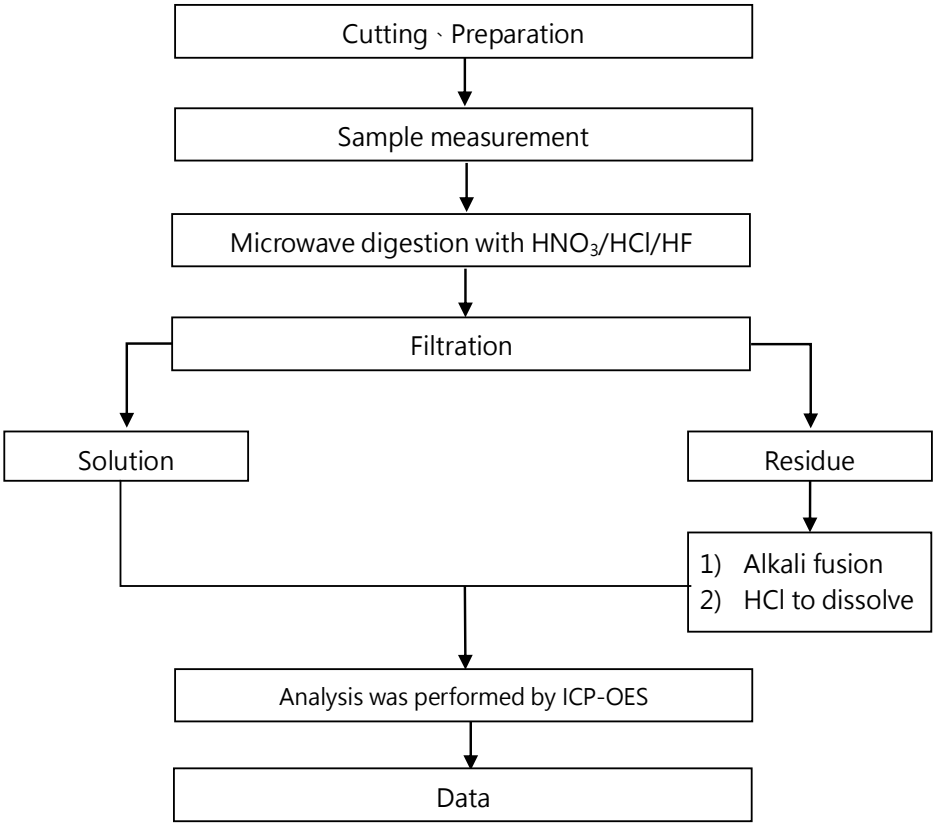
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Analytical flow chart of elements (Heavy metal included)

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

【Reference method：US EPA 3051A、US EPA 3052】



* US EPA 3051A method does not add HF.

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

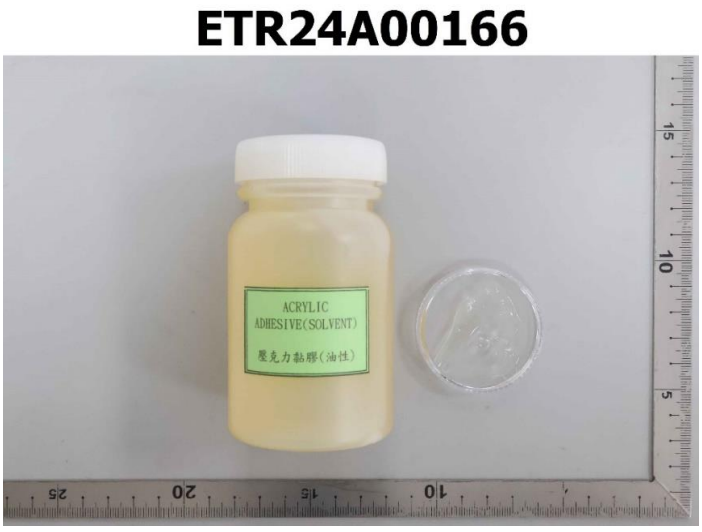
No.1



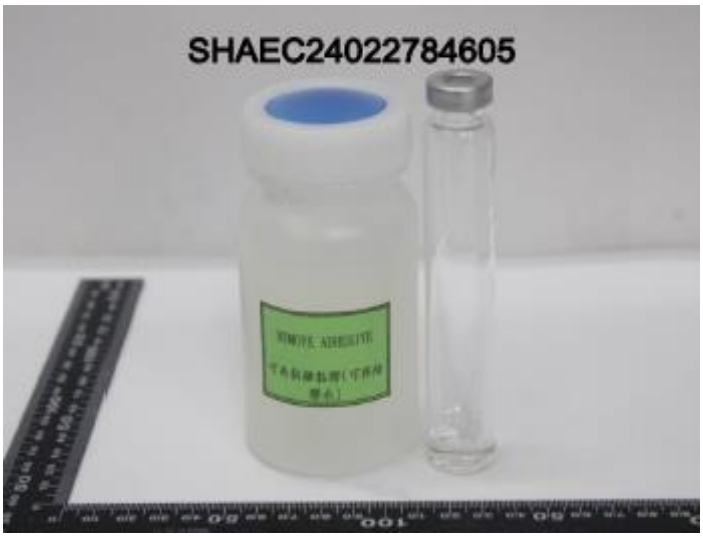
No.2



No.3



No.4



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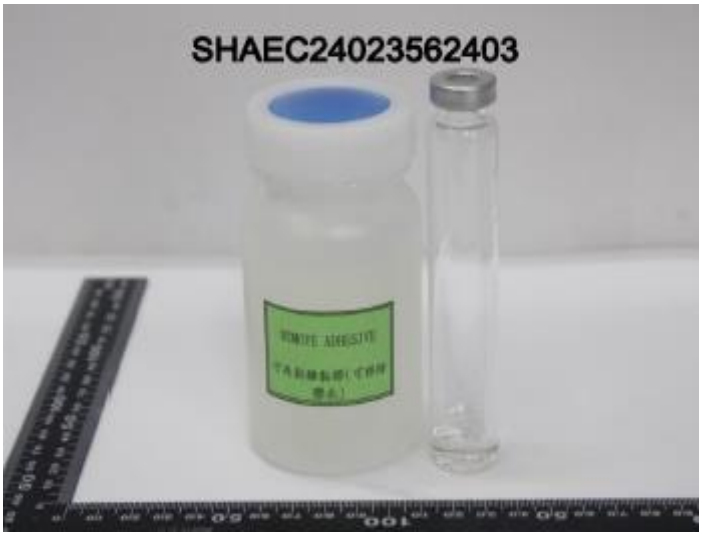
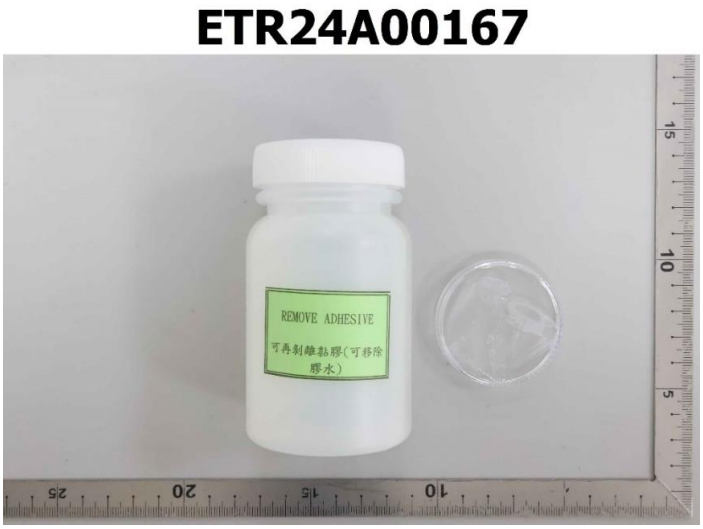
No.5



No.6



No.7



No.8



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No.9

ETR24A00193



** End of Report **

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高冠企業股份有限公司
KK ENTERPRISE CO. LTD.,

產品規格表
Specification

制訂日期：2017/06/20

代號 Code	TLT1	品　　名 Article Name	透明 PET 膜商標紙 Transparent PET Film Label

結構 Construction			
	Face Material	→透明 PET 膜	Transparent PET Film
	Adhesive	→壓克力膠	Acrylic Adhesive
	Liner	→PE 淋膜橘彩牛離型紙	PE Lami. Orange Kraft Release Paper

項目 Item		單位 Unit	數據 Data	測試方法 Test Method
面材 Face Material	厚　度 Thickness	mm	0.025±0.005	ASTM D-1000
	基　重 Basis Weight	g/m^2	32±3	
黏膠 Adhesive	上 膠 厚 度 Coat Thickness	mm	0.023±0.005	ASTM D-1000
	初 期 力 Initial Tack	cm	18 ↓	PSTC-6
	黏 著 力 Peel Adhesion	kgf/25mm	0.6 ↑	PSTC-1
	剝 離 力 Release Force	gf/25mm	6~12	PSTC-8
	保 持 力 Holding Power	hour/20×20mm/kgf	8 ↑	PSTC-7
底紙 Liner	厚　度 Thickness	mm	0.185±0.010	ASTM D-1000
	基　重 Basis Weight	g/m^2	164±11	
UL 認證溫度 UL Rating Temperature		℃	Min.:-20 / Max:125	UL 969
使用溫度 Service Temperature		℃	-20~+150	
最適貼標溫度 Ideal Application Temperature		℃	+10~+40	
保存期限 Storage life		months	12	
保存環境 Storage Condition		建議存放在陰涼通風處，避免陽光直接照射 Recommend to put in shady and cool place, and please avoid direct sunshine.		
備註 Remark		UL File MH13600		

以上技術資料為本公司採用公認可靠之檢驗方法，經多次檢驗所得之平均數據不做產品驗收之用。
基於欲使用之對象，請先行對使用目的與條件作詳盡了解與試用。

The above-mentioned technical data and recommendations are based on test or experience by KK, and should be considered representative or typical only, not for specification purposes. It is essential that user should evaluate the KK product to determine previously whether it is suitable for particular end-use.

Test Report

No.: ETR24A01343 Date: 25-Oct-2024

KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

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

Sample Submitted By	:	KK ENTERPRISE CO., LTD.
Sample Name	:	POLYESTER FILM LABEL(透明特多龍(聚酯膜)商標紙)
Style/Item No.	:	PLEASE REFER TO PAGE 2

==========

Sample Receiving Date	:	01-Oct-2024 and 09-Oct-2024
Testing Period	:	01-Oct-2024 to 17-Oct-2024

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 PAHs and other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

CHECK REPORT
PIN CODE: E8840E79

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Style/Item No. :

ATLT38J#62、ATLT50#7、ATLTD5008#3、ATLTJ100#17、BTLT#B7、DL14、E-FR09、EFRT36J、EHMTLT、E-HMTLT50、E-HTLT、E-HTLT#1R、E-HTLT(BL)、E-HTLT100#1R、E-HTLT38#8、E-HTLT50、E-HTLT50#1R、E-HTLTJ、E-HTLTJ#6R、EHTLTM75#9R、E-HTLTTLT12J、E-MHTLT100、E-MTLT50、E-PC75、E-TFT50+PE、E-TFTJ36、E-TFTMJ36、E-TLT、E-TLT#1R、E-TLT#1RA、ATLT50JE、E-TLT#3R、E-TLT#3R(I)、ETLT#4R、E-TLT#4R、E-TLT#6R(I)、E-TLT#7R、ETLT#8、E-TLT(BL)、E-TLT1#8、E-TLT1#9H、E-TLT100、E-TLT100#1R、ETLT100+RP、E-TLT100E、E-TLT100H、E-TLT12、E-TLT12#6R、E-TLT150、E-TLT188、ETLT250、E-TLT250#3R、E-TLT36、E-TLT38#8、E-TLT50、ETLT50#1R、E-TLT50#5R、E-TLT50#6R、E-TLT50#7R、E-TLT50ULE、E-TLT75、E-TLT75#6R、E-TLT75#7R、E-TLT8E、E-TLTE、E-TLTE#9H、E-TLTHE、E-TLTJ#1R、E-TLTJ100E-A、ETLTJ12#1R、E-TLTJHE、E-TLTMJ50、E-TLTMJ50#7R、E-TMPC、E-TTLT+TLT、DLJ25、E-TTLT+TLTJ、E-TTLT100#1R、ETTLT100+RP、E-TTLT12、E-TTLT12#5R、E-TTLT50、E-TTLT50#1R、E-TTLT50#3R、HTLT07J#PW、E-TTLT50#6R、E-TTLTM、E-TTLTMJ75、E-TTLTW+TLT、FR09、R-09、FR09#25、FR09#25J、FR09#36、FR-09#36、FR09#36J、FR09#50、FR-09#50、FR09#50J、FR09#70、FR-09#70、FR09#70J、FR09#75、FR-09#75、FR09#75J、FR09KC、GL10、HEZTLT、HGTLT02J#9、HGTLTJ5001#21、HITLT、HITLT10、HITLT12、HLT50(BL)、HLT50H、HMFR-09、HMTLT、HMTLT#1R、L102、HMTLT#3R、HMTLT100、HMTLT50、HMTLT50#1R、HMTLT50#3R、HMTLT50#4R、HMTLT75、HTLAT、HTLATJ、HTLT、HTLT#1R、HTLT#1R3、HTLT#21、HTLT02J#9、HTLT03J、HTLT07J#6R、HTLT09J、HTLT1、HTLT100#1R、HTLT100#5R、HTLT100#6、HTLT100J#1R、HTLT12、HTLT12#17、HTLT12#1R、HTLT125、HTLT16、HTLT188、HTLT25、HTLT31J、HTLT38、HTLT50、HTLT5002J、HTLT50H、HTLT50J、HTLT50J#1R、HTLTD、HTLTH、HTLTI、HTLTJ、HTLTJ#2R、HTLTJ16、HTLTJ50、HTLTJ5001#21、HTLTJ5002#55、HTLTJ50BL#21、HTLTJBL#KR、HTLTM、HTLTME、ITLT12、K1011、K1014、K1030、KITLT12、KTLT50J#5R、L105J、L111、L115K、PC、PC125、PC127、PC76、PC835、TLTH36E、R4HTLTJ50BL#9、RATLT01J#9、RATLT5001E#9、RATLT75、L156、RATLT75#1、RATLTJ5009#3A、RHTLT09J、RTLT16J#3R、RVTLT、SMDT-TA、TD10、TFTJ36、TLAT、TLAT07、TLAT07#A4、TLAT1、TLAT17、TLATM、TLT、TLT#、TLT#17、TLT#1R、TLT#1R1、TLT#1R2、TLT#1R3、TLT#2R、TLT#3R、TLT#4R、TLT#5R、TLT#6R、TLT#RT3、TLT(I)、TLT1、TLT10#1R3、TLT100、TTLT5038、TLT100#1R、TLT100#1R(I)、TLT100#1R2、TLT100#1R3、HTLTM#1R、TLT100#2R、TLT100#3R、TLT100#4R、TLT100#5R、TLT12、VL09、TLT12#17、TLT12#1R、TLT125、TLT125#1R、TLT12E、TLT12H、TLT16、TLT16E、TLT188、TLT50、TLT50#1R、TLT50#1R(I)、TLT50(I)、TLT5014#31、TLT50E、TLT50H、TLT50J、TLT50J#1R、TLT75#1R、TLT75#RA、TLT75BL、TLTE、TLTGY、TLTGY25、TLTJ、TLTM、TLTM50、TMLT50、TPAT、TPATL、TTLT、TTLT100、TTLT16、TTLT16J、TTLT25、TTLT50#1R3、TTLT50#4R、TTLT50#4R2、TTLT50#RA、TTLT50(I)、TTLT50J、TTLTJ50I#21、TTLTM、TTLTM19、T-TLTM19、TTLTM19J、TTXL912、DLJ26、VTLATJI27、VTLT01、VTLT01#55、VTLT01J#17、VTLT31J、VTLT5024#9、VTLTM100#AR、VZTLT、X1-SMDT-TA、XHTLT12、

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Test Part Description

No.1 : YELLOW PASTE - ETR24903706V01
No.2 : YELLOW PASTE - ETR24A03092
No.3 : YELLOW GLUE (DRY BASE) - ETR24A00166
No.4 : COLORLESS TRANSPARENT PASTE - ETR24903707
No.5 : COLORLESS TRANSPARENT PASTE - ETR24A03093
No.6 : TRANSPARENT GLUE (DRY BASE) - ETR24A00167
No.7 : COLORLESS TRANSPARENT FILM - ETR24903729
No.8 : COLORLESS TRANSPARENT FILM - ETR24A03115
No.9 : TRANSPARENT FILM - ETR24A00189

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	n.d.	---	1000
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	---	---	n.d.	---	1000

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Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Polybrominated biphenyls (PBB)	With reference to IEC 62321-12: 2023, analysis was performed by GC/MS.	mg/kg	-	n.d.	---	---	n.d.	---	1000
Monobrominated biphenyl (MonoBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Dibrominated biphenyl (DiBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tribrominated biphenyl (TriBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tetrabrominated biphenyl (TetraBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Pentabrominated biphenyl (PentaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Hexabrominated biphenyl (HexaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Heptabrominated biphenyl (HeptaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Octabrominated biphenyl (OctaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Nonabrominated biphenyl (NonaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Decabrominated biphenyl (DecaBB)		mg/kg	25	n.d.	---	---	n.d.	---	-
Polybrominated diphenyl ethers (PBDE)		mg/kg	-	n.d.	---	---	n.d.	---	1000
Monobrominated diphenyl ether (MonoBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Dibrominated diphenyl ether (DiBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tribrominated diphenyl ether (TriBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Tetrabrominated diphenyl ether (TetraBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Pentabrominated diphenyl ether (PentaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Hexabrominated diphenyl ether (HexaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Heptabrominated diphenyl ether (HeptaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Octabrominated diphenyl ether (OctaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Nonabrominated diphenyl ether (NonaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-
Decabrominated diphenyl ether (DecaBDE)		mg/kg	25	n.d.	---	---	n.d.	---	-

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Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Di-2-Ethyl Hexyl Phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	---	---	n.d.	---	1000
Benzyl Butyl Phthalate (BBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Dibutyl Phthalate (DBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Diisobutyl Phthalate (DIBP)		mg/kg	50	n.d.	---	---	n.d.	---	1000
Fluorine (F)	With reference to EN 14582: 2016, analysis was performed by IC.	mg/kg	20	n.d.	---	---	n.d.	---	-
Chlorine (Cl)		mg/kg	50	n.d.	---	---	n.d.	---	-
Bromine (Br)		mg/kg	50	n.d.	---	---	n.d.	---	-
Iodine (I)		mg/kg	50	n.d.	---	---	n.d.	---	-
Diisononyl Phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	n.d.	-
Di-n-Octyl Phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diisodecyl Phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	---	n.d.	---	---	n.d.	-
Bis(2-methoxyethyl)phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	---	n.d.	---	---	n.d.	-
Di-n-Hexyl Phthalate (DnHP) (CAS No.: 84-75-3)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dipentyl Phthalate (DPENP/DnPP) (CAS No.: 131-18-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dimethyl Phthalate (DMP) (CAS No.: 131-11-3)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diethyl Phthalate (DEP) (CAS No.: 84-66-2)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dicyclohexyl Phthalate (DCHP) (CAS No.: 84-61-7)		mg/kg	50	---	n.d.	---	---	n.d.	-
Dinonyl Phthalate (DNP) (CAS No.: 84-76-4)		mg/kg	50	---	n.d.	---	---	n.d.	-
Diisopentyl Phthalate (DIPP) (CAS No.: 605-50-5)		mg/kg	50	---	n.d.	---	---	n.d.	-
n-pentyl Isopentyl Phthalate (nPIPP) (CAS No.: 776297-69-9)		mg/kg	50	---	n.d.	---	---	n.d.	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	n.d.	-
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters (DHNUP) (CAS No.: 68515-42-4)		mg/kg	50	---	n.d.	---	---	n.d.	-
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)		mg/kg	50	---	n.d.	---	---	n.d.	-
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	---	---	n.d.	---	---	-
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	---	---	n.d.	---	---	-
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))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	---	---	n.d.	---	---	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	---	---	n.d.	---	---	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	---	---	Negative	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Polycyclic Aromatic Hydrocarbons (PAHs)									
Benzo[a]pyrene (CAS No.: 50-32-8)	With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.	mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[e]pyrene (CAS No.: 192-97-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[a]anthracene (CAS No.: 56-55-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[b]fluoranthene (CAS No.: 205-99-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[j]fluoranthene (CAS No.: 205-82-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[k]fluoranthene (CAS No.: 207-08-9)		mg/kg	0.2	---	---	n.d.	---	---	-
Chrysene (CAS No.: 218-01-9)		mg/kg	0.2	---	---	n.d.	---	---	-
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		mg/kg	0.2	---	---	n.d.	---	---	-
Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)		mg/kg	0.2	---	---	n.d.	---	---	-
Anthracene (CAS No.: 120-12-7)		mg/kg	0.2	---	---	n.d.	---	---	-
Fluoranthene (CAS No.: 206-44-0)		mg/kg	0.2	---	---	n.d.	---	---	-
Phenanthrene (CAS No.: 85-01-8)		mg/kg	0.2	---	---	n.d.	---	---	-
Pyrene (CAS No.: 129-00-0)		mg/kg	0.2	---	---	n.d.	---	---	-
Naphthalene (CAS No.: 91-20-3)		mg/kg	0.2	---	---	n.d.	---	---	-
Sum of 15 PAHs		mg/kg	-	---	---	n.d.	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	---	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	---	n.d.	---	---	-
Antimony trioxide (Sb_2O_3) (CAS No.: 1309-64-4)	Calculated from the result of Antimony.	mg/kg	2▲	---	---	n.d.	---	---	-

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	---	---	n.d.	-
Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	---	---	n.d.	-
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))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	---	---	n.d.	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	n.d.	---	---	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative	---	---	Negative	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Polycyclic Aromatic Hydrocarbons (PAHs)								
Benzo[a]pyrene (CAS No.: 50-32-8)	With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.	mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[e]pyrene (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[a]anthracene (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[b]fluoranthene (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[j]fluoranthene (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[k]fluoranthene (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	---	---	n.d.	-
Chrysene (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	---	---	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	---	---	n.d.	-
Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	---	---	n.d.	-
Anthracene (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	---	---	n.d.	-
Fluoranthene (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	---	---	n.d.	-
Phenanthrene (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	---	---	n.d.	-
Pyrene (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	---	---	n.d.	-
Naphthalene (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	---	---	n.d.	-
Sum of 15 PAHs		mg/kg	-	n.d.	---	---	n.d.	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	---	120	-
Nickel (Ni) (CAS No.: 7440-02-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	---	---	n.d.	-
Red Phosphorus	Analysis was performed by Pyrolyzer-GC/MS.	**	-	---	---	---	Negative	-
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	---	---	1000
Mercury (Hg)	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)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	---	n.d.	---	---	1000

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Polybrominated biphenyls (PBB)	With reference to IEC 62321-12: 2023, analysis was performed by GC/MS.	mg/kg	-	---	n.d.	---	---	1000
Monobrominated biphenyl (MonoBB)		mg/kg	25	---	n.d.	---	---	-
Dibrominated biphenyl (DiBB)		mg/kg	25	---	n.d.	---	---	-
Tribrominated biphenyl (TriBB)		mg/kg	25	---	n.d.	---	---	-
Tetrabrominated biphenyl (TetraBB)		mg/kg	25	---	n.d.	---	---	-
Pentabrominated biphenyl (PentaBB)		mg/kg	25	---	n.d.	---	---	-
Hexabrominated biphenyl (HexaBB)		mg/kg	25	---	n.d.	---	---	-
Heptabrominated biphenyl (HeptaBB)		mg/kg	25	---	n.d.	---	---	-
Octabrominated biphenyl (OctaBB)		mg/kg	25	---	n.d.	---	---	-
Nonabrominated biphenyl (NonaBB)		mg/kg	25	---	n.d.	---	---	-
Decabrominated biphenyl (DecaBB)		mg/kg	25	---	n.d.	---	---	-
Polybrominated diphenyl ethers (PBDE)		mg/kg	-	---	n.d.	---	---	1000
Monobrominated diphenyl ether (MonoBDE)		mg/kg	25	---	n.d.	---	---	-
Dibrominated diphenyl ether (DiBDE)		mg/kg	25	---	n.d.	---	---	-
Tribrominated diphenyl ether (TriBDE)		mg/kg	25	---	n.d.	---	---	-
Tetrabrominated diphenyl ether (TetraBDE)		mg/kg	25	---	n.d.	---	---	-
Pentabrominated diphenyl ether (PentaBDE)		mg/kg	25	---	n.d.	---	---	-
Hexabrominated diphenyl ether (HexaBDE)		mg/kg	25	---	n.d.	---	---	-
Heptabrominated diphenyl ether (HeptaBDE)		mg/kg	25	---	n.d.	---	---	-
Octabrominated diphenyl ether (OctaBDE)		mg/kg	25	---	n.d.	---	---	-
Nonabrominated diphenyl ether (NonaBDE)		mg/kg	25	---	n.d.	---	---	-
Decabrominated diphenyl ether (DecaBDE)		mg/kg	25	---	n.d.	---	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
Di-2-Ethyl Hexyl Phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	---	---	1000
Benzyl Butyl Phthalate (BBP)		mg/kg	50	---	n.d.	---	---	1000
Dibutyl Phthalate (DBP)		mg/kg	50	---	n.d.	---	---	1000
Diisobutyl Phthalate (DIBP)		mg/kg	50	---	n.d.	---	---	1000
Fluorine (F)	With reference to EN 14582: 2016, analysis was performed by IC.	mg/kg	20	---	n.d.	---	---	-
Chlorine (Cl)		mg/kg	50	---	n.d.	---	---	-
Bromine (Br)		mg/kg	50	---	n.d.	---	---	-
Iodine (I)		mg/kg	50	---	n.d.	---	---	-
Diisononyl Phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	---	n.d.	---	-
Di-n-Octyl Phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	---	---	n.d.	---	-
Diisodecyl Phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	---	---	n.d.	---	-
Bis(2-methoxyethyl)phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	---	---	n.d.	---	-
Di-n-Hexyl Phthalate (DnHP) (CAS No.: 84-75-3)		mg/kg	50	---	---	n.d.	---	-
Dipentyl Phthalate (DPENP/DnPP) (CAS No.: 131-18-0)		mg/kg	50	---	---	n.d.	---	-
Dimethyl Phthalate (DMP) (CAS No.: 131-11-3)		mg/kg	50	---	---	n.d.	---	-
Diethyl Phthalate (DEP) (CAS No.: 84-66-2)		mg/kg	50	---	---	n.d.	---	-
Dicyclohexyl Phthalate (DCHP) (CAS No.: 84-61-7)		mg/kg	50	---	---	n.d.	---	-
Dinonyl Phthalate (DNP) (CAS No.: 84-76-4)		mg/kg	50	---	---	n.d.	---	-
Diisopentyl Phthalate (DIPP) (CAS No.: 605-50-5)		mg/kg	50	---	---	n.d.	---	-
n-pentyl Isopentyl Phthalate (nPIPP) (CAS No.: 776297-69-9)		mg/kg	50	---	---	n.d.	---	-

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.6	No.7	No.8	No.9	
1,2-Benzenedicarboxylic Acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	---	n.d.	---	-
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters (DHNUP) (CAS No.: 68515-42-4)		mg/kg	50	---	---	n.d.	---	-
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)		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. "---" = Not Conducted
6. **= Qualitative analysis (No Unit)
7. Negative = Undetectable ; Positive = Detectable
8. ▲ : The MDL was evaluated for element / tested substance.
   Conversion Formula：AX = A × F

AX	A	F
Antimony trioxide (Sb_2O_3)	Antimony	1.1971

   Parameter Conversion Tab https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. No.3 and No.6: The sample(s) was/were tested after drying at 105 ℃ for 2 hours.
10. 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.
11. This report is combined with 9 copies of test reports which provided by client.

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

PAHs Remark：

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

Parameter	Category 1	Category 2		Category 3	
	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).	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.		Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦30 seconds).	
		a. Use by children under 14	b. Other consumer products	a. Use by children under 14	b. 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
Sum of 15 PAH	< 1	< 5	< 10	< 20	< 50

Unit：mg/kg

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PFAS Remark：

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.)

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$)	70225-14-8
	Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	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
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	Perfluorooctanesulfonate (anion)	45298-90-6
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-$N(C_2H_5)_3$)	54439-46-2
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(CH_3)_4$)	56773-44-5
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4

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KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
	Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3^+))	68141-02-6
	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H_2O)$_2$)	98065-31-7
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C_5H_5N)	95658-47-2
	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6

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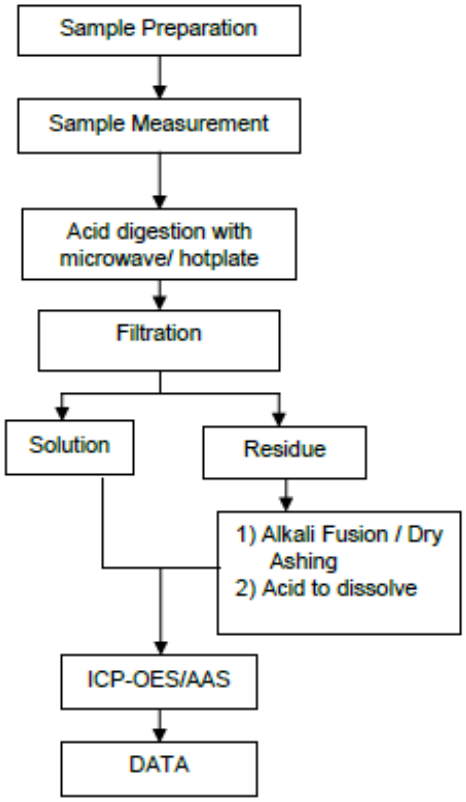
KK ENTERPRISE CO., LTD.
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Elements Testing Flow Chart

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



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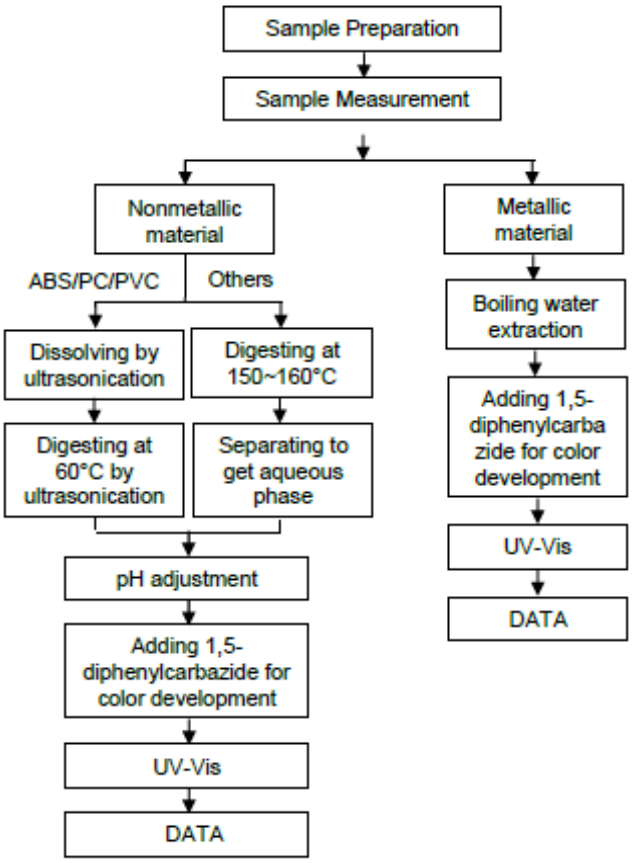
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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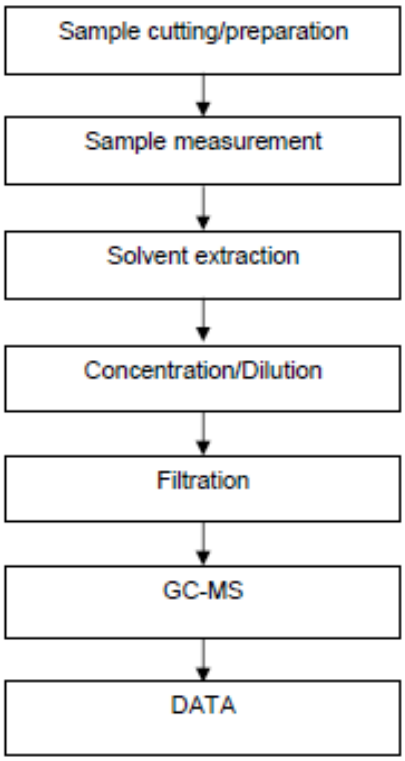
PBB/PBDE/Phthalates Testing Flow Chart



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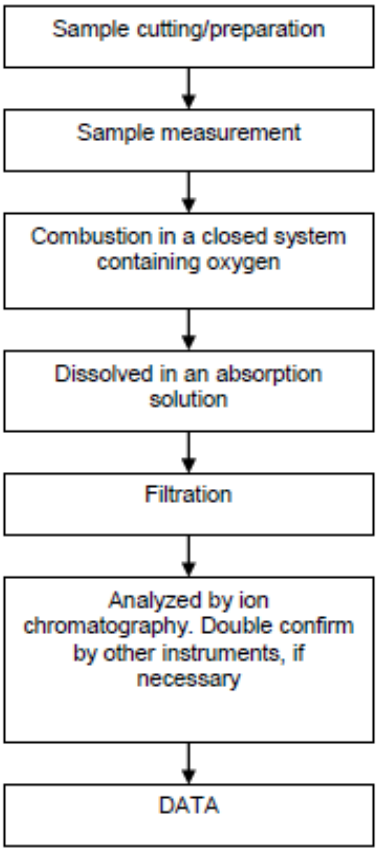
Halogen Testing Flow Chart



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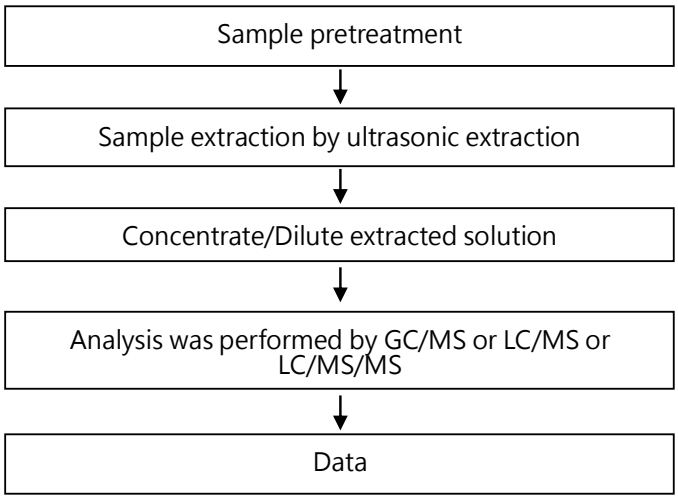
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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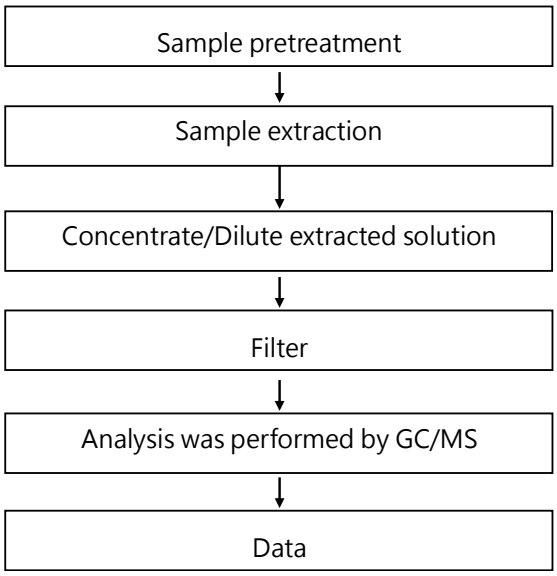
Analytical flow chart - HBCDD



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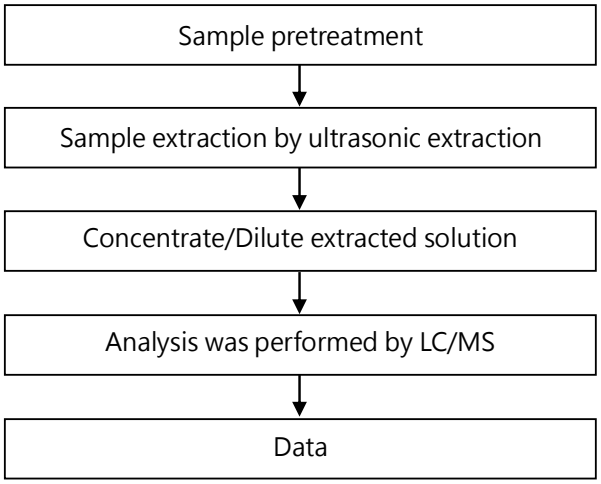
Analytical flow chart - TBBP-A



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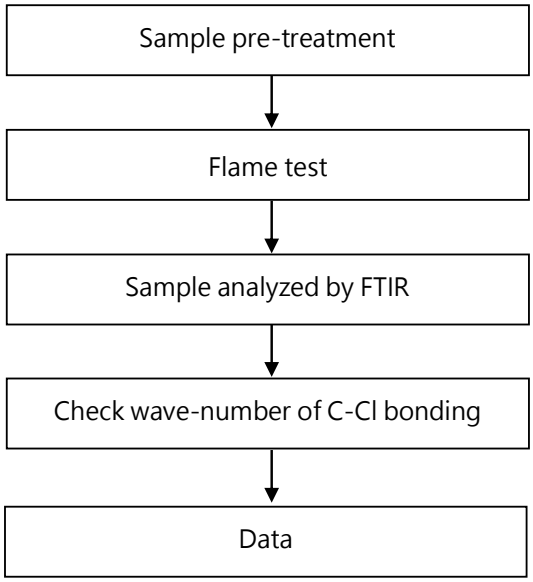
Analysis flow chart - PVC



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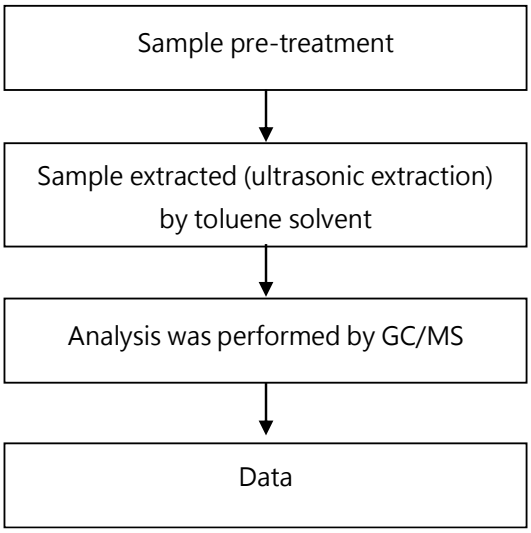
Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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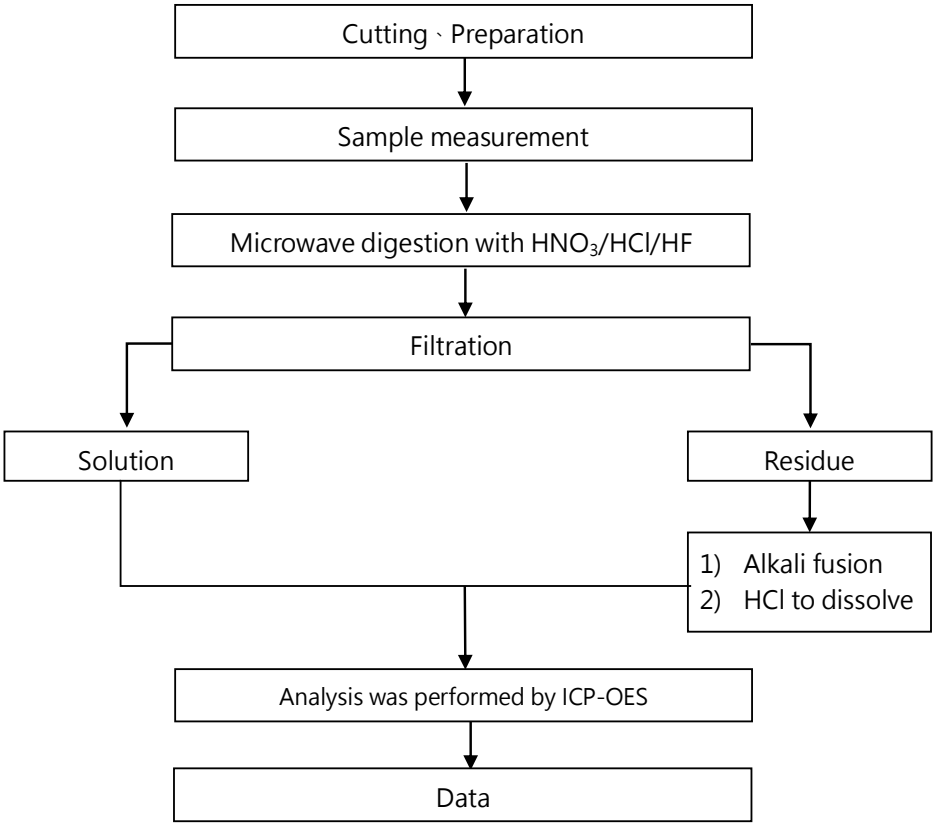
NANKANG INDUSTRIAL PARK, NO. 1, TSUCHIANG 3RD. RD., NAN-TOU CITY

Analytical flow chart of elements (Heavy metal included)

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

【Reference method：US EPA 3051A、US EPA 3052】



* US EPA 3051A method does not add HF.

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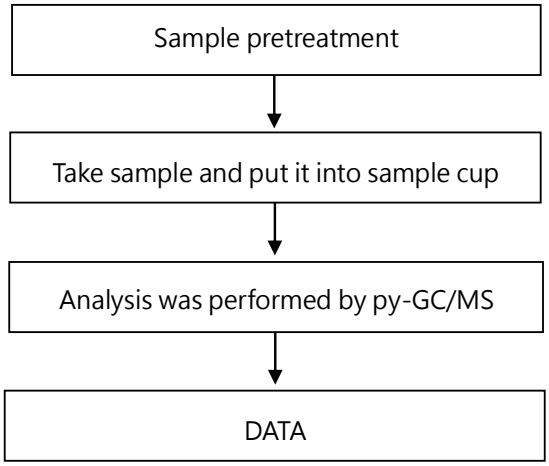
Analytical flow chart - Red phosphorus



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

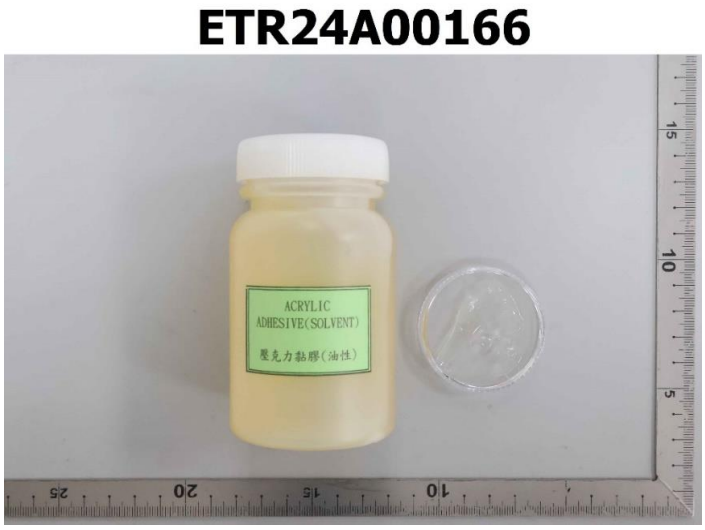
No.1



No.2



No.3



No.4



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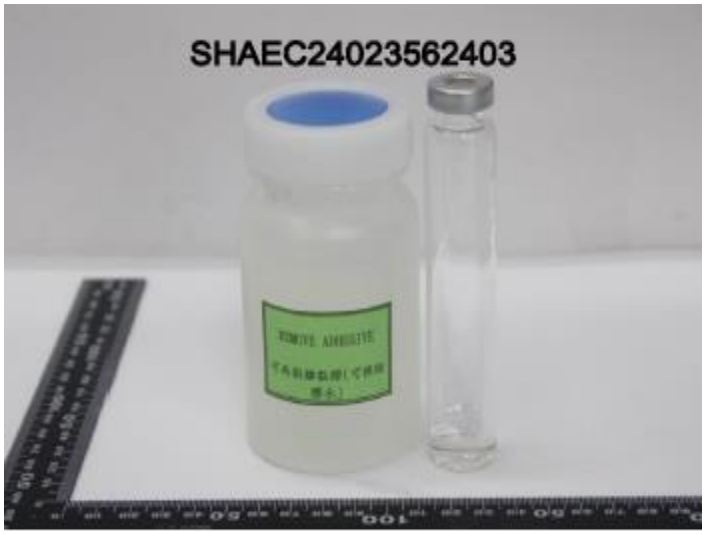
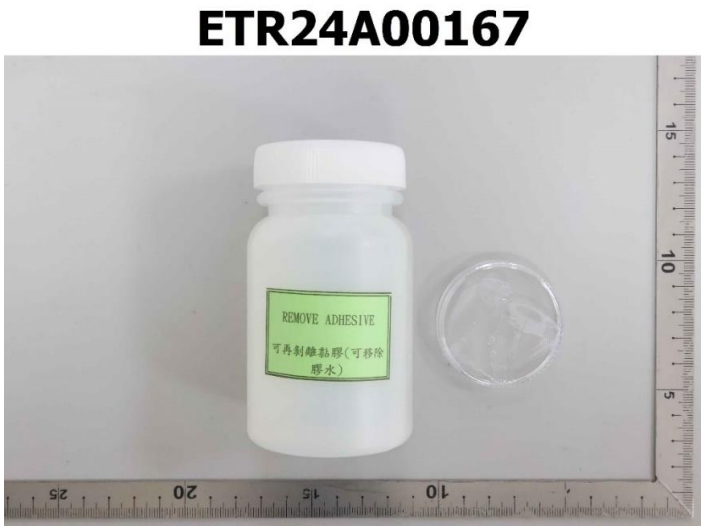
No.5



No.6



No.7



No.8



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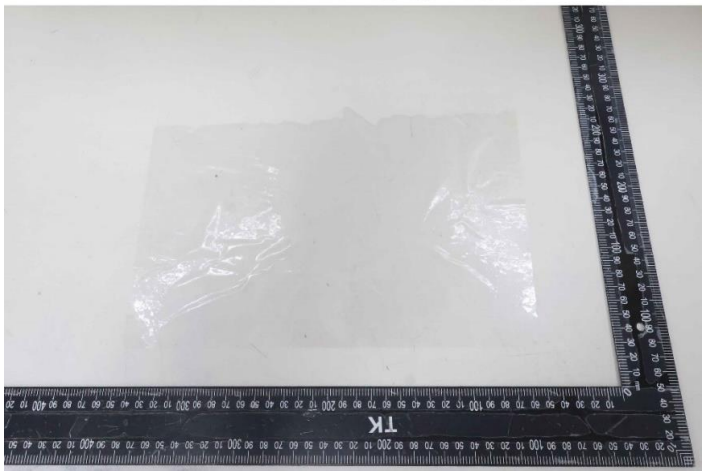
No.9

ETR24A00189



** End of Report **

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