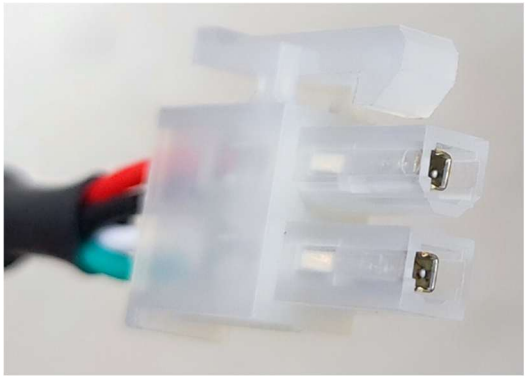












設計驗證
工程課
2025 -05- 12
發行
紅緯科技開發股份有限公司

程悅有限公司
CHENNYUE CO., LTD.

規格承認書
SPECIFIATION FOR APPROVAL

客戶 CUSTOMER	DIVA
客戶料號 CUSTOMER P/N	3KC00009011 (K1019)
描述 DESCRIPTION	CPN003N1M0(POWER DC CABLE) L=600mm
料號 PART NO.	210.LS11
日期 DATE	2025.4.21
發行版次 ISSUE NO.	A

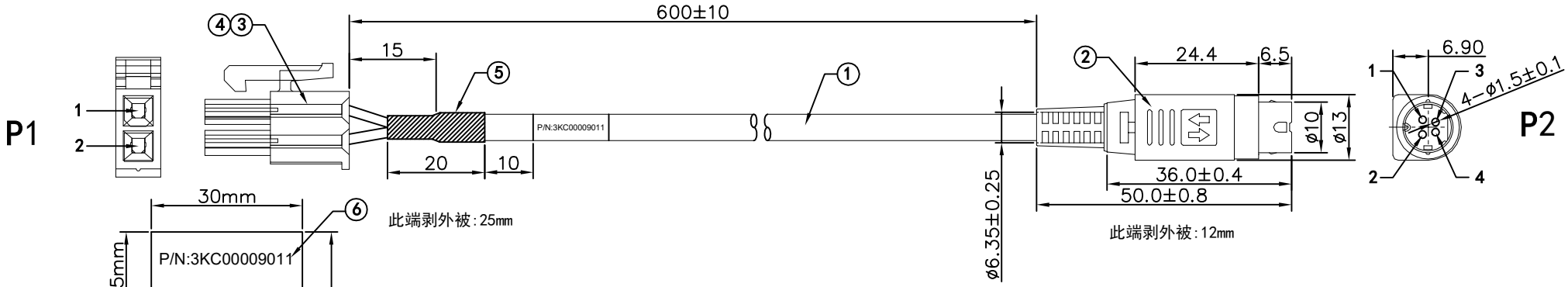
程悅發行 ISSUED BY CHENNYUE	客戶確認 APPROVAL BY CUSTOMER
程悅有限公司承認書 2025-4-21 CHENNYUE CO., LTD.	設計驗證 工程課 2025 -05- 12 發行

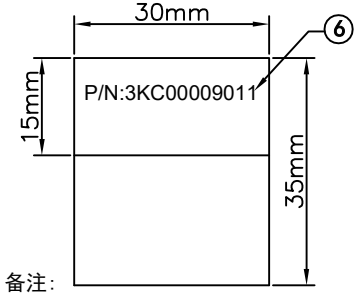
程悅有限公司
CHENNYUE CO., LTD.
新北市蘆洲區環堤大道42號10樓
10F, No.42, Huanti Blvd., Luzhou Dist., New Taipei City 24766, Taiwan

RoHS Compliant

Customer P/N	P/N:3KC00009011

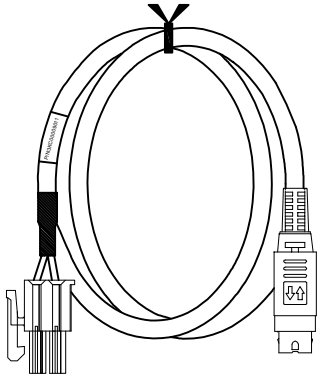
Rev	Revision note	Date
A	Initial Released.	2025-03-28



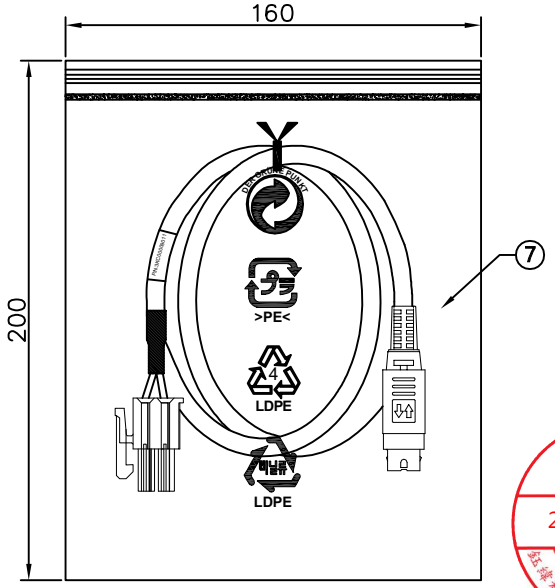


备注:

1. 字体:Arial
2. 字高:2.3
3. 材质:白底黑字上部分，下部分透明。



扎线图示



装PE锁骨袋

PIN ASSIGNMENT

P1		P2
2	GREEN	1
2	WHITE	2
1	BLACK	3
1	RED	4

設計驗證
工程課
2025 -05- 12
發行

NOTE:

1. ELECTRICAL TEST;
   (1-1). 100% OPEN, SHORT&MISWIRE;
   (1-2). INSULATION RESISTANCE:DC 300V, 0.1s, 10MΩ Min;
   (1-3). CONTACT RESISTANCE:3ΩMax;
   (1-4). WITHSTAND VOLTAGE:AC 100V, 0.1s, 0.5mA Max.
2. PRODUCTS MUST COMPLY WITH THE COMPANY ENVIRONMENTAL MATERIAL MANAGEMENT STANDARD RoHS REQUIREMENTS.

3KC00009011 (K1019)

No.	DESCRIPTION & MATERIAL	Q'ty	Unit
7	200*160*0.05mm 印四国环保LDPE锁骨袋	1	pcs
6	30*35mm 标贴 材质:上部分铜版纸白底黑字 下部分透明	1	pcs
5	ø6.0 HEART SHRINK TUBE BLACK L=20mm	1	pcs
4	MOLEX P/N:39-00-0038 TER	2	pcs
3	MOLEX P/N:39-01-2020 HSG	1	pcs
2	KYCON P/N:KPPX-4P CONNECTOR	1	pcs
1	UL2464 22#*4C+D+AL BLACK COLOR PVC JACKET OD:5.2mm	647	mm

APPOVALS		DATE
DRAWN	Ricky	2025-03-28
CHECKED	Joan	2025-03-28
APPROVED		

CHENNYUE info@Chennyue.com

TITLE: POWER 2P TO KPPX-4P CABLE L=600mm

DWG No.: 210.LS10 Rev: A

Scale: Free | All dimensions for reference only dimensions are in millimeters. | Page 1of1 | Size A4

PROPRIETARY INFORMATION NOTICE:
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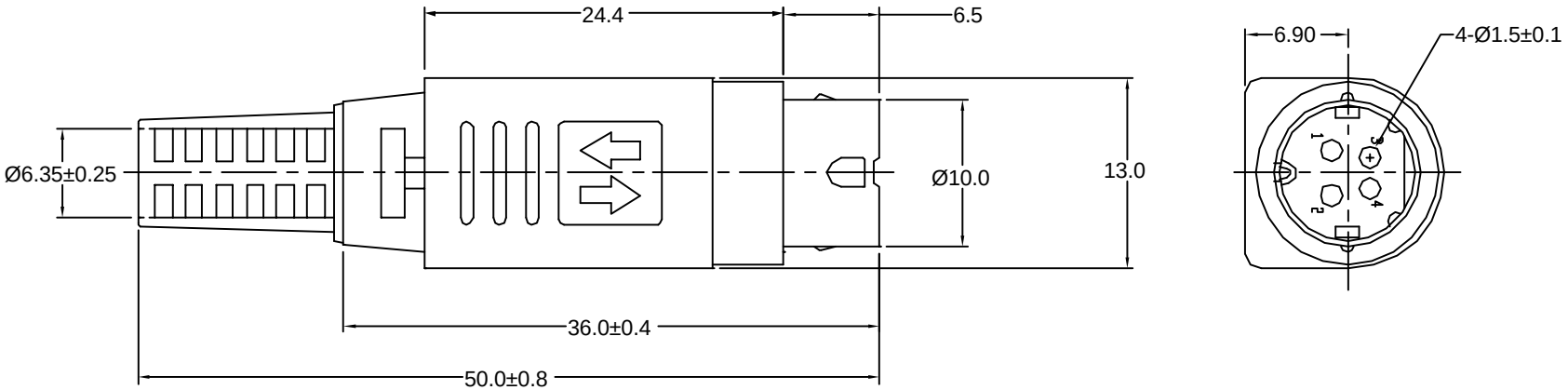
KYCON, Inc. 1810 Little Orchard Street, San Jose, CA 95125 (408)494-0330



Material and Finish

Inner Shield: copper alloy,
tin plated

Body: ABS thermoplastic
UL94HB rated
color - black

Insert: Nylon, Black Color
UL94V-2 Rated

Contacts: brass

Contacts Plating Options

Standard : Tin plating
30 option: 30u" Gold plated

Electrical Characteristics

Contact Rating:
7.5A max. @ 20V DC

Insulation Resistance:
50 Megohms min. at 250V DC

Dielectric Strength:
250 V AC rms for 1 minute

Contact Resistance:
50 milliohms max.

Ordering Information

Part Number	Contact Area Plating Finish
KPPX-4P	Tin plating
KPPX-4P-30	30u" Gold (30 option)

RoHS COMPLIANT
EU Directive 2002/95/EC

C US
LR78160

Tolerances
X.X ± 0.25
X.XX ± 0.15
Unless Stated Otherwise

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY
A1	8/4/05	New Drawing	R. Aguirre	H. MA
A2	04/24/06	ECO #06-028	R. Aguirre	H. MA
A3	07/19/06	Added plating option	R. Aguirre	H. MA
A4	9/13/06	ECO# 06-039	R. Aguirre	H. MA

DRAWN BY	DATE
R. Aguirre	06/30/05
	UNITS
	mm

KPPX-4P

Power Plug, Cable Mount

Snap and Lock,RoHS Compliant

KYCON

LEADERSHIP in Connector Design

KYCON

DC POWER CONNECTORS

KPJX / KPPX Series

RoHS



KPPX/KPJX Series
Snap and Lock PCB and Cable Mount

Features

LR78160

- Laptop Computers, Power Supplies and Other Portable Digital Equipment Applications
- Snap and Lock Feature Helps to Prevent Accidental Disconnects
- 3 or 4 Pins Transmit Power, or One Pin Can be Used For Signal Transmission
- For Signal and DC Power Applications
- Plugs Supplied in Kits Ready for Assembly
- CSA/NRTL Certified File No. LR78160

Performance Specifications

Materials and Finish

Jack

Shield: Tin Plated
Body: PBT UL94 V-0 Rated
HT Body: High Temperature Thermoplastic,UL94 V-0 Rated

Plug

Body: ABS UL94 HB

Electrical Characteristics

Contact Rating

3 Position : Pin 1 and 2, 20V DC at 7.5A Max.,
Pin 3, 20V DC 1.0A Max.

4 Position : 20V DC 7.5A Max. for all Pins

Insulation Resistance : 50 Megohms Min. at 250V DC

Dielectric Strength : 250V AC for 1 Minute

Contact Resistance : 30 milliohms Max.

Mechanical Characteristics

- Durability Test : 1000 Cycles
- Suggested Wire Awg. #18 for Power Wires, #24 for Signal Wire

Documentation & Ordering Information

Kycon Part #	

Part Number Builder

Series	Mounting Option	No of Contacts	Contact Type	Shield Option

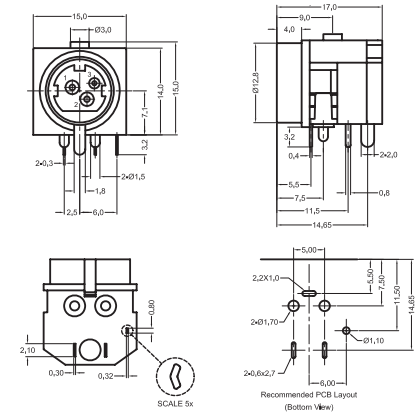
Series
KPJX - Right Angle Receptacle
KPJX-CM - Receptacle,Cable Mount
KPJX-PM - Receptacle,Panel Mount
KPJXHT - High Temp Right Angle Receptacle
KPPX - Snap and Lock DC Power Plug Cable Mount

Number of Contacts
3 Pin
4 Pin

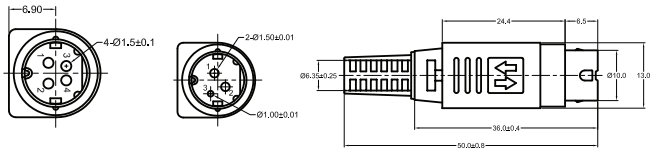
Contact Type
S - Socket (KPJX Only)
P - Plug (KPPX Only)

Shield Option
Blank - Non-Shielded
S - Shielded (KPJX, KPJX-PM and KPJXHT only)

KPJX-3S



KPPX-xP



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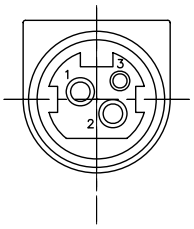
LEADERSHIP in Connector Design

KYCON

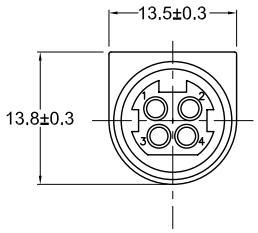
DC POWER CONNECTORS

KPJX / KPPX Series

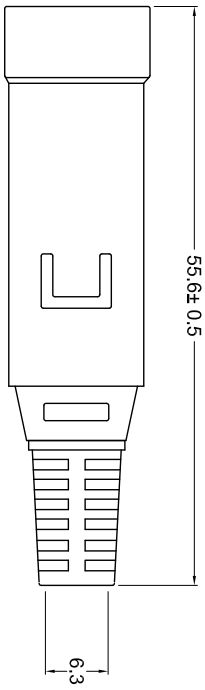
KPJX-CM-xS



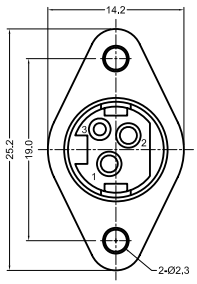
3 PIN CONFIGURATION

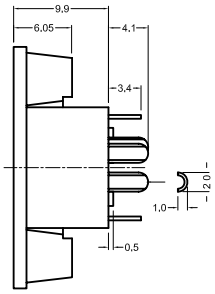


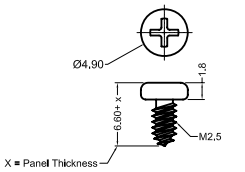
4 PIN CONFIGURATION



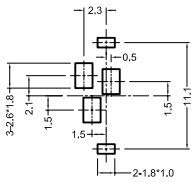
KPJX-PM-3S





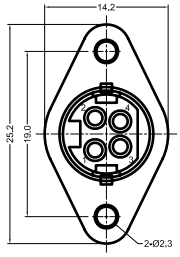


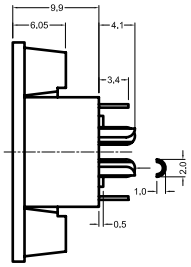
Recommended Mounting Screw

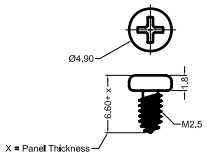


Recommended PCB Layout

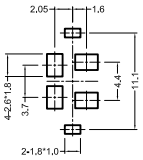
KPJX-PM-4S







Recommended Mounting Screw



Recommended PCB Layout

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东莞市溢鸿科技有限公司

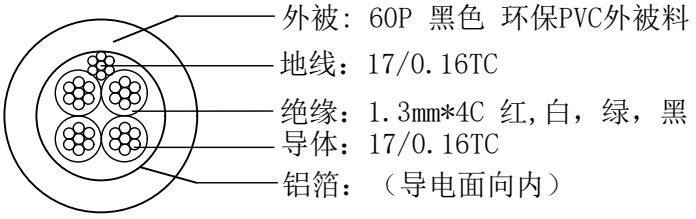
电 线 规 格 书

客户		物料编号	2024641000XX	文件编号	ENC-G-Y0025	版本	1.0
料号	2464 4芯+D电线			日期	2024.08.26	页次	1/1

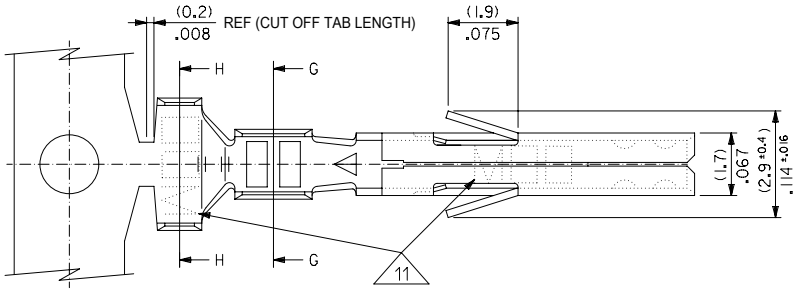
CABLE SPEC/电线规格	17/0.16TC*1.3mm*4C红白绿黑PVC+D17/0.16TC+AL OD:5.2MM 60P黑色外被	
CONSTRUCTION/构造	Item/项目	Spec show/规格说明
CONDUCTOR/导体	Construction/构造	22AWG
	Material/材料	镀锡铜
	Filler Materila/填充材料	————
	Construction Size/构造尺寸	17/0.16TC±0.005mm
	Wring pitch /绞距	
INSULATLON/绝缘	Material/材料	35P 环保PVC料
	Average Thickness/平均厚度	/
	Diameter/直经	1.3±0.05mm
	Color/颜色	红，白，绿，黑
TWISTED WAY/绞线方式	Insulatlon Color/绝缘颜色	
	Wire distance/绞线距离	
	Direction/方向	S
KRAIN WIRE/地线	Construction/构造	地线
	Material/材料	镀锡铜
	Construction Size/构造尺寸	17/0.16TC±0.005mm
FILLER/填充物	Material/材料	————
	Construction Size/构造尺寸	
	Percentage of Coverage/遮蔽率	
LAPPING/包纸	Material/材料	铝箔
	Construction Size/构造尺寸	10mm(导电面向内)
	Overlap/重叠率	
INER JACKET/内被	Material/材料	————
	Average Thickness/平均厚度	————
	Diameter/直经	————
JACKET/外被	Material/材料	60P 环保PVC料
	Jacket Color/外被颜色	黑色
	Average Thickness/平均厚度	————
	Diameter/直经	5.2±0.1mm
	Marking Color/印字颜色	白色
MARKING/印字	E343712 兄 AWM STYLE 2464 80° C 300V VW-1 22AWG DHE	

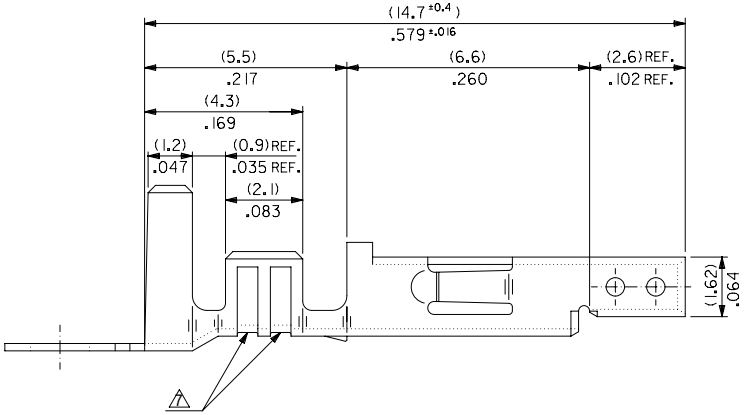
备注：

结构图



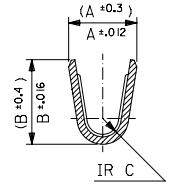
核准： 审核： 作成：王静

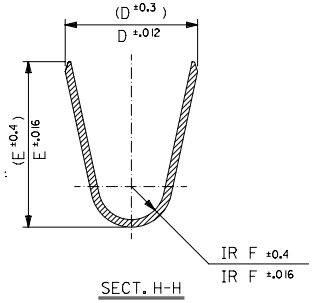


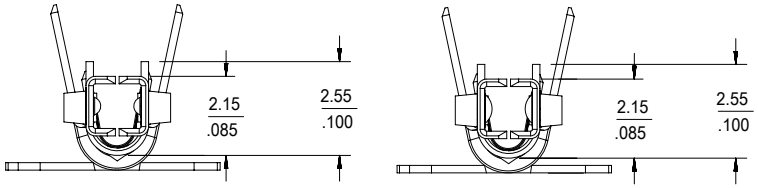


#18-24 TERMINAL SHOWN

NOTES
1. MATERIAL: SEE CHART.
2. FINISH: SEE CHART.
3. PRODUCT SPECIFICATION: PS-5556-001, PS-5556-002, PS-5556-003.
4. PACKAGING SPECIFICATION: PK-5556-001 FOR CHAIN TERMINALS
   PK-5556-003 FOR LOOSE TERMINALS.
5. MATES WITH: 5558, 5566, 5569, 30069, 30070, 42440, 42404, 43879, 43810, 44068.
6. APPLICABLE HOUSING: 5557, 30067, 44516, OR 42474.
7. THE NUMBER OF SERRATIONS TO BE ONE FOR WIRE RANGE #22-28.
8. WHEN TERMINALS ARE INSTALLED IN THE HOUSING THE WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.
9. THIS TERMINAL IS DESIGNED FOR SINGLE WIRE CRIMPING.
10. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
11. TEXT ON PART IS FOR REFERENCE ONLY. TEXT AND TEXT LOCATION MAY VARY DEPENDING ON PART NUMBER AND/OR TOOL.







CONTACT DIMPLE CONFIGURATIONS

PLATING	MATERIAL	F	E	D	C	B	A	INS. RANGE	WIRE RANGE	EDP NO.	ENG. NO.	FORM
REFLOWED MATTE TIN 0.00090/(.000035) MIN. (PREPLATE) (FINISH IS BRIGHT IN APPEARANCE, THICKNESS AS APPLIED PRIOR TO REFLOW)	PHOS BRONZE	(0.9) .035	(4.5) .177	(3.6) .142	(0.6) .024	(2.7) .106	(2.3) .091	∅ (3.1) .122 MAX.	#16	39-00-0080	5556 PBT3L	LOOSE
										-0079	PBT3	CHAIN
		(0.6) .024	(2.3) .091	(2.3) .091	(0.4) .016	(1.65) .065	(1.8) .071	∅ (0.9-1.8) .035-.071	#22-28	-0066	PBT2L	LOOSE
										-0065	PBT2	CHAIN
		(0.9) .035	(4.5) .177	(3.6) .142	(0.5) .020	(2.3) .091	(1.9) .075	∅ (1.3-3.1) .051-.122	#18-24	-0060	PBTL	LOOSE
										-0059	PBT	CHAIN
REFLOWED MATTE TIN 0.00090/(.000035) MIN. OVER COPPER 0.00050/(.000020) MIN. (PREPLATE) (FINISH IS BRIGHT IN APPEARANCE, THICKNESS AS APPLIED PRIOR TO REFLOW)	BRASS	(0.9) .035	(4.5) .177	(3.6) .142	(0.6) .024	(2.7) .106	(2.3) .091	∅ (3.1) .122 MAX.	#16	-0078	T3L	LOOSE
										-0077	T3	CHAIN
		(0.6) .024	(2.3) .091	(2.3) .091	(0.4) .016	(1.65) .065	(1.8) .071	∅ (0.9-1.8) .035-.071	#22-28	-0047	T2L	LOOSE
										-0046	T2	CHAIN
		(0.9) .035	(4.5) .177	(3.6) .142	(0.5) .020	(2.3) .091	(1.9) .075	∅ (1.3-3.1) .051-.122	#18-24	-0039	TL	LOOSE
										39-00-0038	5556 T	CHAIN

SYMBOLS
F = 0
E = 0
D = 0
S = 0
C = 0
B = 0
A = 0
= 0
= 0

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DIMENSION UNITS: IN/MM
SCALE: 10:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	± 0.008
2 PLACES	± 0.2	± 0.008
1 PLACE	± 0.2	±
0 PLACES	±	±
ANGULAR TOL	± 3.0 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CORRECT DIM F TOL.

EC NO: 600516
DRWN: SALHAMY 2018/06/15
CHK'D: JBELL 2018/06/15
APPR: FSMITH 2018/06/17

INITIAL REVISION:
DRWN: HIRAMOTO 1991/05/18
APPR: FSMITH 2011/02/21

THIRD ANGLE PROJECTION
DRAWING: C-SIZE
SERIES: 5556

molex

MINI FIT JR OVERALL TIN
FEMALE CRIMP TERMINAL

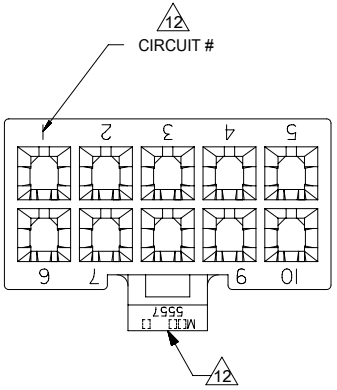
PRODUCT CUSTOMER DRAWING

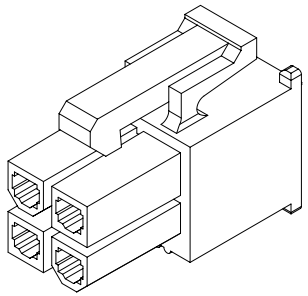
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
55560000-SD	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 1

DOCUMENT STATUS	P1	RELEASE DATE	2018/06/17 17:06:33

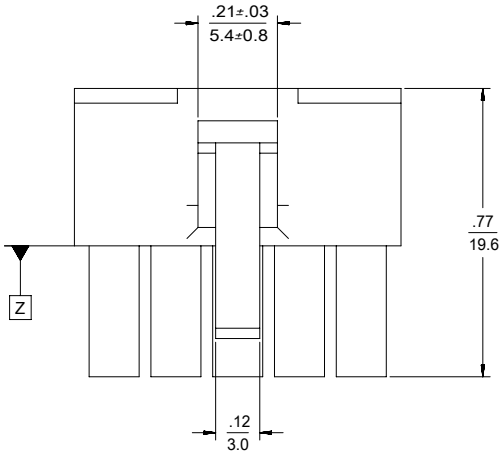
THIS DRAWING REPLACES DRAWING SD-5556****

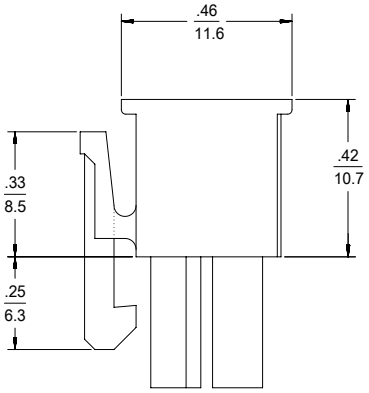




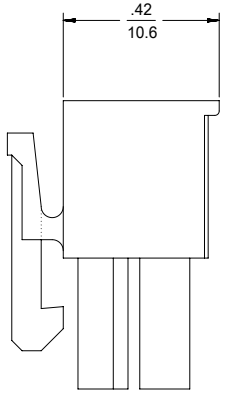
4 CKT SHOWN

NOTES:
1) MATERIAL:
"BLANK" = NYLON 6/6, UNFILLED UL94V-2, COLOR: NATURAL.
"BL" = NYLON 6/6, UNFILLED UL94V-2, COLOR: BLACK.
"BU" = NYLON 6/6, UNFILLED UL94V-2, COLOR: BLUE.
"RE"= NYLON 6/6, UNFILLED UL94V-2, COLOR: RED.
"YE"= NYLON 6/6, UNFILLED UL94V-2, COLOR: YELLOW
"GRE"= NYLON 6/6, UNFILLED UL94V-2, COLOR: GREEN.
"210" = NYLON 6/6, UNFILLED UL94V-0, COLOR: NATURAL.
"400" = NYLON 6/6, UNFILLED UL94V-0, COLOR: BLACK.
2) FINISH: NOT APPLICABLE
3) PRODUCT SPECIFICATION: PS-5556-001
4) PACKAGING: BULK PACKED PER PK-5557-002
5) PART MATES WITH MOLEX PLUG #5559 AND HEADERS #5566, #5569.
6) PART TO BE USED WITH MOLEX FEMALE TERMINAL #5556.
7) PART IS NOT DESIGNED FOR CURRENT SHARING.
8) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
9) WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.
10) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF DISCOLORATION, FLASH AND SINK MEET CLASS "C" REQUIREMENTS.
11 TO BE MEASURED AT SURFACE Z
12 TEXT ON PART IS FOR REFERENCE ONLY. TEXT AND TEXT LOCATION MAY VARY DEPENDING ON PART NUMBER AND/OR TOOL.

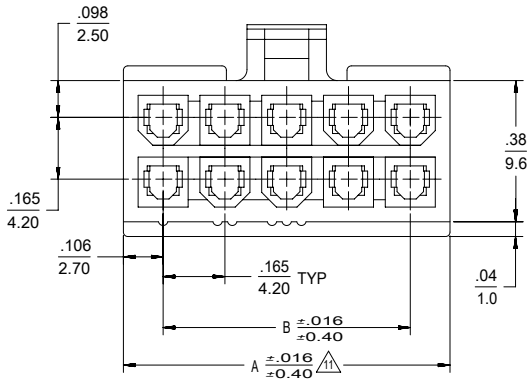




4-24 CKT



2 CKT ONLY



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1.866/(47.40)	1.654/(42.00)	22
1.701/(43.20)	1.488/(37.80)	20
1.535/(39.00)	1.323/(33.60)	18
1.370/(34.80)	1.157/(29.40)	16
1.205/(30.60)	0.992/(25.20)	14
1.039/(26.40)	0.827/(21.00	12
0.874/(22.20)	0.661/(16.80)	10
0.709/(18.00)	0.496/(12.60)	8
0.543/(13.80	0.331/(8.40)	6
0.378/(9.60)	0.165/(4.20)	4
0.213/(5.40)	—	2
A	B	NO. OF CKTS.

DOCUMENT STATUS	P1	RELEASE DATE	2018/06/03 20:30:51

SYMBOLS: ▽ = 0; ▽ = 0; ▽ = 0; ▽ = 0; ▼ = 0; ▽ = 0; ☒ = 0; ■ = 0; ▽ = 0

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DIMENSION UNITS: IN/MM
SCALE: 4:1
GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	± 0.01
2 PLACES	± 0.25	± 0.015
1 PLACE	± 0.38	±
0 PLACES	±	±
ANGULAR TOL	± 0.5 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: UPDATE NOTE 4

EC NO: 600128
DRWN: AZAHIROVIC 2018/04/11
CHK'D: JBELL 2018/06/01
APPR: FSMITH 2018/06/03

INITIAL REVISION:
DRWN: S.MOCHIZUKI 1990/02/22
APPR: FSMITH 2011/02/21

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 5557

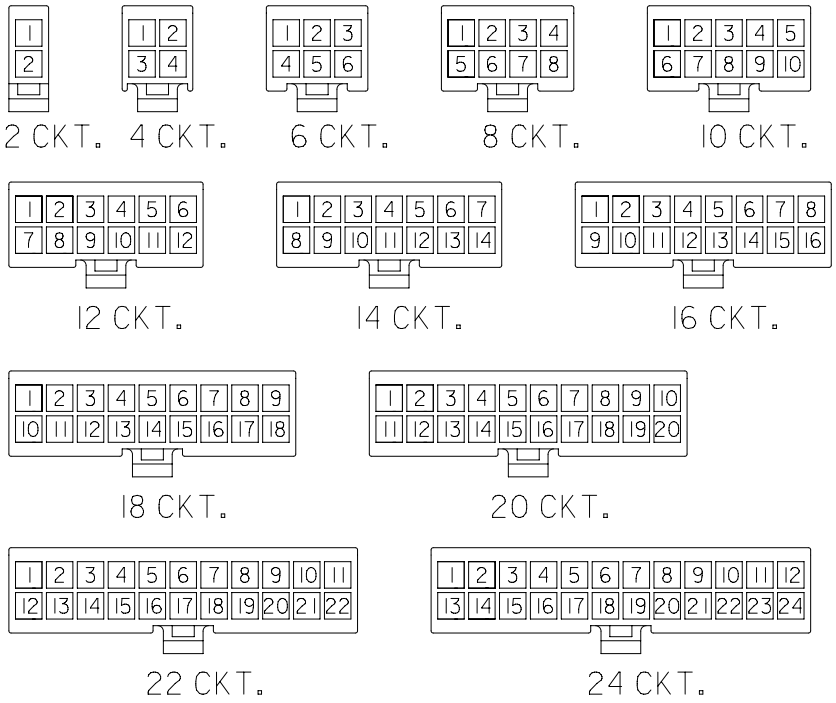
molex

MINIFIT JR
RECEPTACLE HOUSING DUAL ROW 2-24 CKT

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-5557-003	PSD	000	J18

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 2



CIRCUIT SIZE LAYOUT

(NOT TO SCALE)

LEGEND

5557-**R-*

CIRCUIT SIZE

RECEPTACLE

MATERIAL

(SEE NOTE 1)

	V-0 (BLACK)				V-0 (NATURAL)		
	39-03-9242	5557-24R-400	24		39-01-2245	5557-24R-210	24
*	39-03-9222	5557-22R-400	22		39-01-2225	5557-22R-210	22
*	39-03-9202	5557-20R-400	20		39-01-2205	5557-20R-210	20
	39-03-9182	5557-18R-400	18		39-01-2185	5557-18R-210	18
	39-03-9162	5557-16R-400	16		39-01-2165	5557-16R-210	16
	39-03-9142	5557-14R-400	14		39-01-2145	5557-14R-210	14
	39-03-9122	5557-12R-400	12		39-01-2125	5557-12R-210	12
	39-03-9102	5557-10R-400	10		39-01-2105	5557-10R-210	10
	39-03-9082	5557-08R-400	8		39-01-2085	5557-08R-210	8
	39-03-9062	5557-06R-400	6		39-01-2065	5557-06R-210	6
	39-03-9042	5557-04R-400	4		39-01-2045	5557-04R-210	4
	39-03-9022	5557-02R-400	2		39-01-2025	5557-02R-210	2
	EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.

* = CONSULT FACTORY FOR AVAILABILITY.

	V-2 (BLUE)				V-2 (GREEN)				V-2 (YELLOW)				V-2 (RED)				V-2 (BLACK)				V-2 (NATURAL)		
			24				24				24		–	–	24	*	39-01-3245	5557-24R-BL	24		39-01-2240	5557-24R	24
			22				22				22		–	–	22		39-01-3225	5557-22R-BL	22		39-01-2220	5557-22R	22
			20				20				20		–	–	20		39-01-3205	5557-20R-BL	20		39-01-2200	5557-20R	20
			18				18				18		–	–	18	*	39-01-3185	5557-18R-BL	18		39-01-2180	5557-18R	18
			16				16				16		–	–	16	*	39-01-3165	5557-16R-BL	16		39-01-2160	5557-16R	16
			14				14				14		–	–	14		39-01-3145	5557-14R-BL	14		39-01-2140	5557-14R	14
			12				12				12		–	–	12		39-01-3125	5557-12R-BL	12		39-01-2120	5557-12R	12
*	39-02-7108	5557-10R-BU	10				10				10	*	39-02-8100	5557-10R-RE	10		39-01-3105	5557-10R-BL	10		39-01-2100	5557-10R	10
			8				8				8		–	–	8		39-01-3085	5557-08R-BL	8		39-01-2080	5557-08R	8
			6	*	39-02-7069	5557-06R-GRE	6	*	39-02-8061	5557-06R-YE	6		39-02-8060	5557-06R-RE	6		39-01-3065	5557-06R-BL	6		39-01-2060	5557-06R	6
			4				4	*	39-02-8041	5557-04R-YE	4	*	39-02-8040	5557-04R-RE	4		39-01-3045	5557-04R-BL	4		39-01-2040	5557-04R	4
			2	*	39-02-7029	5557-02R-GRE	2	*	39-02-8021	5557-02R-YE	2		–	–	2		39-01-3025	5557-02R-BL	2		39-01-2020	5557-02R	2
	EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.		EDP. NO.	ENG. NO.	NO. OF CKTS.

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SYMBOLS

▽F = 0
▽E = 0
▽B = 0
▽S = 0
▼ = 0
▽C = 0
⊠ = 0
■ = 0
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DIMENSION UNITS: IN/MM
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: UPDATE NOTE 4

EC NO: 600128
DRWN: AZAHIROVIC 2018/04/11
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APPR: FSMITH 2018/06/03

INITIAL REVISION:
DRWN: S.MOCHIZUKI 1990/02/22
APPR: FSMITH 2011/02/21

THIRD ANGLE PROJECTION

DRAWING: C-SIZE
SERIES: 5557

molex

MINIFIT JR
RECEPTACLE HOUSING DUAL ROW 2-24 CKT

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-5557-003	PSD	000	J18

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2018/06/03 20:30:51

RoHS Certificate of Compliance

04/21/2025

Molex is committed to managing the use of chemical substances in accordance with governmental regulations, industry standards, and customer-specific requirements in order to protect the environment. For each part listed, this document provides:

- **EU RoHS Compliance Status.** EU RoHS status is declared per Directive 2011/65/EU and its subsequent amendments, including the Directive EU 2015/863 which additionally prohibited four phthalates. Homogeneous materials of parts that are compliant to this legislation have less than 0.1% by weight each of lead, mercury, hexavalent chromium, PBB, PBDE, DBP, BBP, DIBP, DEHP, and 0.01% by weight of cadmium. In situations where an exemption applies, the preceding limits, corresponding to the exempted substance(s), may be higher.

Molex's sole liability for incorrectly certifying a product shall be either replacement of the Molex product or, alternatively and in the sole discretion of Molex, return of the purchase price paid for the relevant Molex product.

For additional information regarding Molex's environmental initiatives and further explanation of this information, please visit www.molex.com

Haim Eliyahu

Director, Global Product Stewardship

Table A

Molex Part Number	Part Description	RoHS Compliance Status
39000038	Mini-Fit Female Crimp Terminal, Tin (Sn) over Copper (Cu) Plated Brass, Double 22+22 or Single 24-18 AWG, Reel	Compliant

RoHS Certificate of Compliance

04/18/2025

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Haim Eliyahu

Director, Global Product Stewardship

Table A

Molex Part Number	Part Description	RoHS Compliance Status
39012020	Mini-Fit Jr. Receptacle Housing, Dual Row, 2 Circuits, UL 94V-2, Natural	Compliant

Signature Not Verified
For Question
Please Contact with SGS
www.tw.sgs.com

Test Report

No. : KA/2025/25064 Date : 2025/02/25

POLYPLASTICS TAIWAN CO., LTD.
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	TEPCON; DURACON; CELCON (PTW)
Sample Description	:	DURACON (PPC, PAP); CELCON(PPC, TICONA)
Style/Item No.	:	M90 NAT, M270 NAT, M450 NAT, M90-10, M90 BK, M90-07, C.M90 NAT,M90-44, TR-5, TR-10D, TR-20, GR-20 VC-11, M90-48, AW-01,CW-01, SW-01, NW-02, NW-02C, TD-5MT, TF-10XAP, TF-20, TF-30, M270-44 BK, TF-10LV
Sample Receiving Date	:	2025/02/19
Testing Period	:	2025/02/19 TO 2025/02/25
Sample Submitted By	:	POLYPLASTICS TAIWAN CO., LTD.

==========

Test Result(s) : Please refer to next page(s).

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。
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POLYPLASTICS TAIWAN CO., LTD.
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS:TEPCON; DURACON; CELCON (PTW)

Test Item (s):	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl	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 PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	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.
Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.

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POLYPLASTICS TAIWAN CO., LTD.
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Test Item (s):	Unit	Method	MDL	Result No.1
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.
Polynuclear Aromatic Hydrocarbons (PAHs)				
Phenanthrene (CAS No.: 85-01-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS No.: 129-00-0)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Naphthalene (CAS No.: 91-20-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluorene (CAS No.: 86-73-7)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Chrysene (CAS No.: 218-01-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.

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POLYPLASTICS TAIWAN CO., LTD.
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Anthracene (CAS No.: 120-12-7)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthylene (CAS No.: 208-96-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthene (CAS No.: 83-32-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Sum of 18 PAHs	mg/kg	-	-	n.d.

Note： 1. mg/kg = ppm；0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.
The above result(s) was/were only given as the informality value.

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NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Reference information:
Requirement of ZEK 01.4-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or toys for children aged < 36 months with intended skin contact.	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin contact).	Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 18 PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark : * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
** = If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

PFOS Reference Information : POPs - (EU) 757/2010
Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1μg/m².

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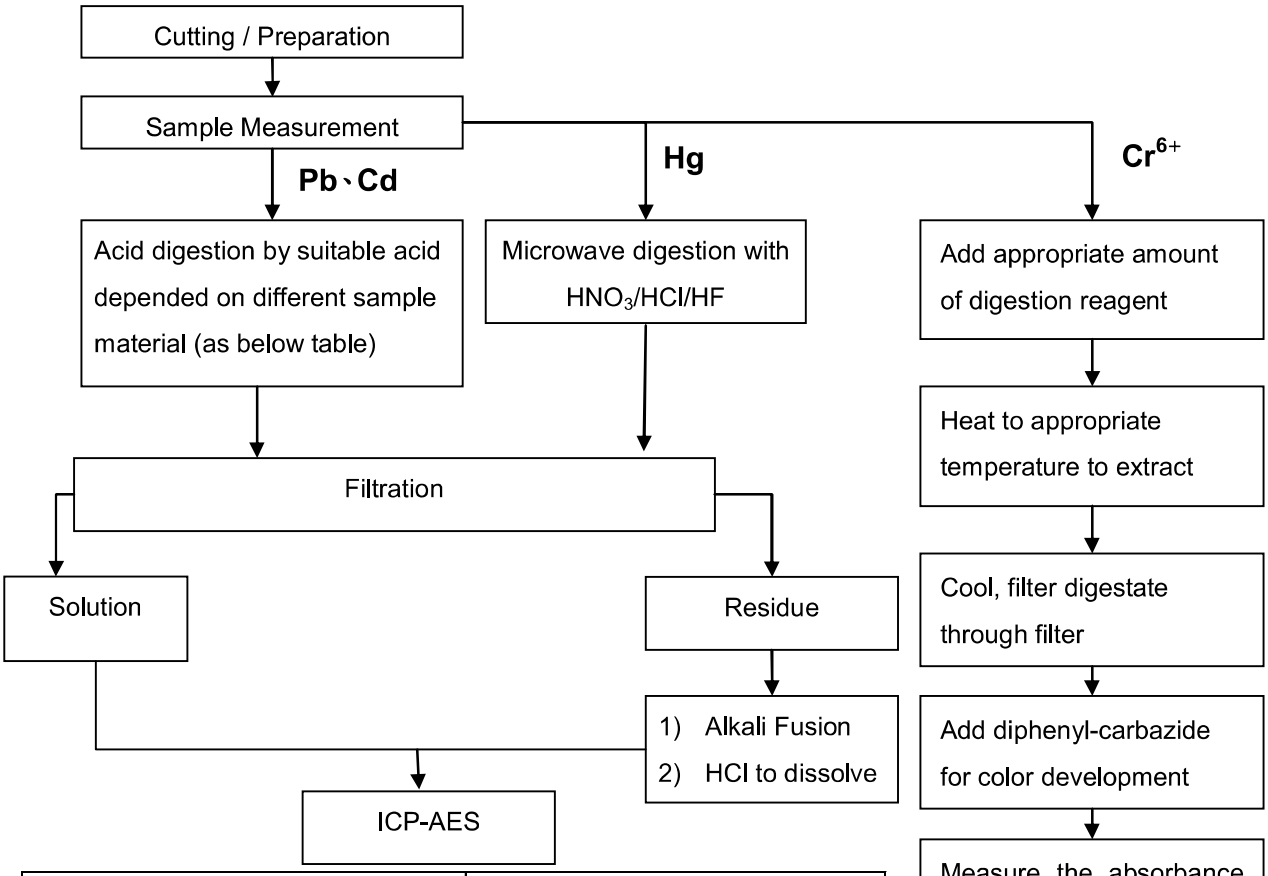
1) These samples were dissolved totally by pre-conditioning method according to below flow chart.（Cr6+ test method excluded）
2) Name of the person who made measurement: Alex Chang
3) Name of the person in charge of measurement: Ray Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO_3, HCl, HF, H_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

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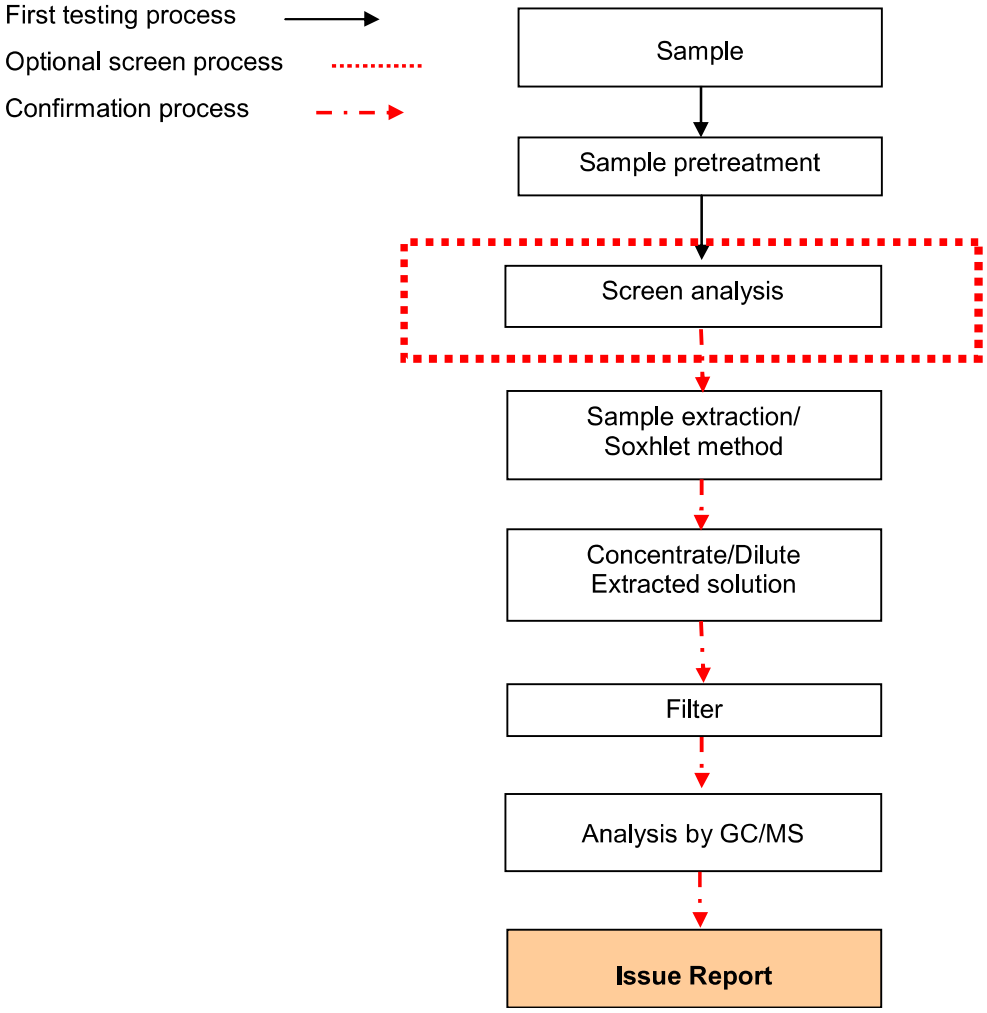
POLYPLASTICS TAIWAN CO., LTD.
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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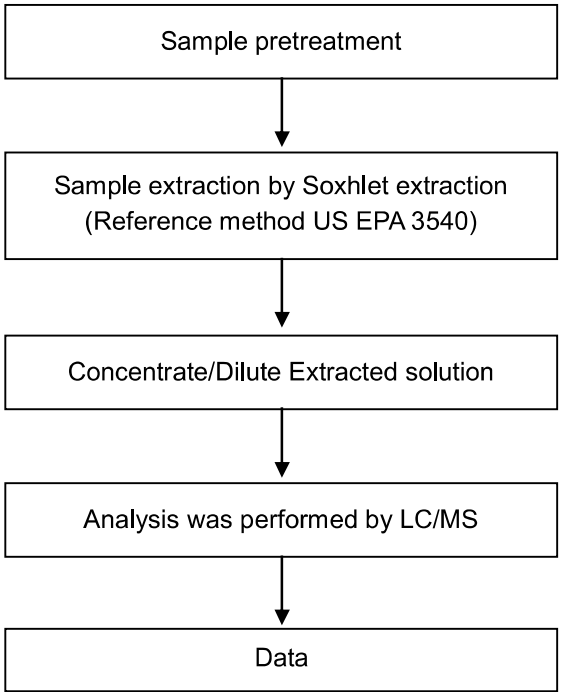
Analytical flow chart of PFOA/PFOS content

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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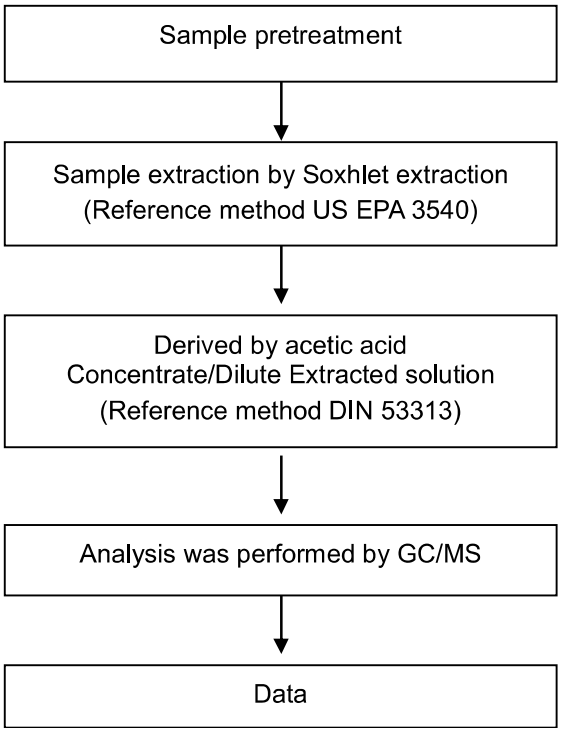
TBBP-A analytical flow chart

1) Name of the person who made measurement: Anson Tsao
2) Name of the person in charge of measurement: Ray Chang



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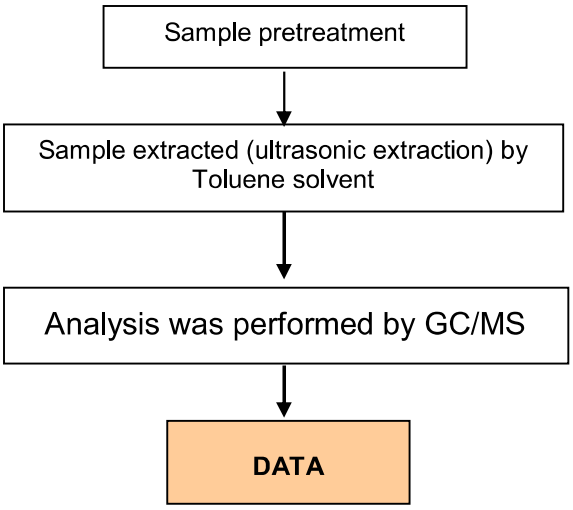
NO.13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

PAHs (PolyAromaticHydrocarbons) analytical flow chart

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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

KA/2025/25064



** End of Report **

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Du Pont de Nemours International S.A.
2, chemin du Pavillon
CH-1218 Le Grand-Saconnex / Geneva
Switzerland
Tel. +41 22 717 6755 / Fax. 6602

Statement

We hereby certify that during manufacture of

ZYTEL® 101F NC010

Nylon resin

ISO 1043 abbreviated term: **PA66**

ISO 11469 part marking code: **>PA66<**

no flame-retardant system is added.

No polybrominated biphenyls (PBB), polybrominated diphenyls (PBD), polybrominated biphenyl oxides/ester/ether (PBBO/PBBE) or polybrominated diphenyl oxides/ester/ether (PBDO/PBDE) are added.

For additional information, please consult the Safety Data Sheet / Product information.

Important: Use good manufacturing practice and assure properly operating exhaust ventilation when processing the above resin to keep volatiles within exposure limits. Before use, please refer to relevant safety, handling and processing information.
Processing and material / part handling conditions may influence chemical content and emission behaviour of finished parts.

This declaration only refers to entries applicable to polymer compounds as delivered.

To the best of our knowledge, our raw material suppliers do not use the above substances in the manufacture of their products. However, we do not routinely analyse our resins for the above substances nor do we require our raw material suppliers to do so.

Rainer Kurzknabe
Regulatory Affairs Programs Manager

This statement is based on our current level of knowledge and covers commercial and experimental resins as supplied by DuPont at the date of issue. Since conditions of use are outside DuPont's control, DuPont makes no warranties, express or implied, and assumes no liability in connection with any use of this information.

® DuPont registered trademark

European Directive 2002/95/EC (RoHS) and European Directive 2002/96/EC (WEEE), European Directive 2003/11/EC (pentabromodiphenyl ether, octabromodiphenyl ether)

The above Directives, enacted in EU Member States, requires that four identified metals are not present above the classification limits as per European Directive 67/548/EEC ff and Explanatory Memorandum, page 42, *Memorandum on Scientific Evaluation, ref: COM 2000/346/final*, dated: 13.06.00

Certain brominated flame-retardant additives are required not to be present above the classification limits. Brominated flame-retardant additives have to be identified if present.

Brominated Flame Retardant additives

The resin, as delivered, does not contain any in the above Directives regulated substances above the allowed limits.
The resin, as delivered, does not contain flame retardant additives to be identified.

Heavy Metals

None of the four named heavy metals, - namely cadmium, lead, mercury and hexavalent chromium, - have been added to this product or the constituents contained in this product. Representative samples of above or similar materials have been examined to assure that potential trace contamination levels are below the required limits.

Compliance certification

Results of various analytical testing, auditing and process analysis techniques, demonstrate, that this material complies with the requirements of the

European Directive 2002/95/EC (RoHS)
European Directive 2002/96/EC (WEEE)
European Directive 2003/11/EC (pentabromodiphenyl ether, octabromodiphenyl ether).

CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1302790 (LR 78160) **Master Contract:** 160740

Project: 1302790 (Edition 1) **Date Issued:** April 4, 2002

Issued to: **Kycon, Inc.**
1810 Little Orchard Street
San Jose, CA 95125
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'

C US

Issued by: Neil Forsyth
Certification Specialist

Authorized by: John Verwey, P. Eng
Operations Manager

PRODUCTS

CLASS 4872-01 ACCESSORIES AND PARTS FOR TELECOMMUNICATION EQUIPMENT.
CLASS 4872-81 ACCESSORIES AND PARTS FOR TELECOMMUNICATION EQUIPMENT – Certified to US Standards

Series Gxx-yyyz, Modular Jacks, Maximum rating 24Vdc, 1.5A. Used for data processing, telecommunication, industrial controls and local area networks field connections.

Note: Each G Series designation is followed by 1 to 6 alphanumerical identification that represents different configurations and mounting. For ordering information the Series No. is followed by an additional alphanumerical system that that identify type, position, No. of contacts and plating options.

APPLICABLE REQUIREMENTS

CAN/CSA	C22.2 No. 0-M91	-	General Requirements - Canadian Electrical Code, Part II
CAN/CSA	C22.2 No 182.4-M90	-	Plugs, Receptacles, and Connectors for `Communication Systems` Equipment
ANSI/UL	No. 1863	-	Communication Circuit Accessories

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.

CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1302790 (LR 78160) **Master Contract:** 160740

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1302790	April 4, 2002	Original Certification Series Gxx-yyyz, Modular Jacks, Maximum

MASTER CONTRACT: 160740
REPORT: 1302790
PROJECT: 1302790

Edition 1: April 4, 2002; Project 1302790 - Edmonton
Issued by Neil Forsyth

Contents: Certificate of Compliance – Pages 1
Supplement to Certificate of Compliance - Page 1
Description and Tests - Pages 1 to
Figures - Non
Illustrations - Non

PRODUCTS

CLASS 4872-01 ACCESSORIES AND PARTS FOR TELECOMMUNICATION EQUIPMENT.
CLASS 4872-81 ACCESSORIES AND PARTS FOR TELECOMMUNICATION EQUIPMENT – Certified to US Standards

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APPLICABLE REQUIREMENTS

CAN/CSA	C22.2 No. 0-M91	-	General Requirements - Canadian Electrical Code, Part II
CAN/CSA	C22.2 No 182.4-M90	-	Plugs, Receptacles, and Connectors for Communication Systems Equipment
ANSI/UL	No. 1863	-	Communication Circuit Accessories

MARKINGS

a) The submittor's name or identifing mark,
b) CSA Monogram and CSA file number "LR 78160 or 160740" (marked adjacent to CSA Monogram) must be clearly present on each unit or its packaging.
c) In addition the model or identifying designation, serial number (or date code) traceable to month and year of manufacture must be present on each individual unit or its packaging.

ALTERATIONS

a) Markings as indicated.

FACTORY TESTS

None required.

DESCRIPTION

Model Nomenclature:

Each G Series designation is followed by 1 to 6 alphanumerical identification that represents different configurations and mounting. For ordering information the Series No. is followed by an additional alphanumerical system that that identify type, position, No. of contacts and plating options.

Series	GM	GM-SMT2	GS	GDL	GL	GDA	GDB	GDP	GSG	GA	GP
Standard Through Hole	●		●	●	●	●	●	●	●	●	●
SMT		●		●							
Shielded	●	●	●	●				●	●		
Keyed				●		●	●				
Panel stops				●	●	●				●	●
Category 5			●						●		
4P4C	●	●			●	●	●	●			
6P4C	●	●		●	●	●	●	●		●	●
6P6C	●	●		●	●	●	●	●		●	●
8P8C	●	●	●	●	●	●	●	●	●	●	●
10P10C	●	●			●						

Order information:

GM	-	N	-	8	-	p
Series		type		No. of positions		plating

Series
GM right angle, PCB mount
Type
N – Non shielded
S - Fully shielded

No. Of Position

4, 6, 8, 10

No. of Contacts
4 - 4 Contacts
6 - 6 Contacts
8 - 8 Contacts
10 – 10 Contacts

List of Attachments:

None

Photographs:

None

Description:

1. Housing:

Models: All models of the "K-Series" D-Subminiature Connectors.
Manufacturer: NAN YA
Material: PBT Material Designation: 1400G6
Flammability rating: UL 94V-0 (Considered at least HB, if min. thickness is met)
Minimum Thickness: 0.79mm

Alternative:
Manufacturer: Eastman Kodak Co.
Material: PCT Material Designation: CG907
Flammability rating: UL 94V-0, E118289 (Considered at least HB, if min. thickness is met)
Minimum Thickness: 1.48 mm

2. Input Rating: (Maximum)

Voltage	Current
ELV (30Vac,60Hz)	7.6 A Precision Machined Contact
ELV (30Vac,60Hz)	5.0 A Precision Formed Contact

TESTS

As per CSA Standard C22.2 No 182.4-M90:

Clauses	6.1 Accelerated Aging	Non applicable (molded plastic)
	6.2 Lead Security	Non applicable (PWB application)
	6.3 Strain Relief	Pass
	6.4 Crushing	Pass
	6.5 Temperature Test	Pass
	6.5.1 Temperature (Normal)	Pass
	6.5.2 Temperature (Abnormal)	Pass
	6.6 Dielectric Strength	Pass
	6.7 Fire Hazard Test	Pass (cheesecloth)
	6.8 Exposed Live Contacts	Pass
	6.9 Tightening Torque	Non applicable (no screw terminal)
	6.10 Impact	Pass

DESCRIPTION

Model Nomenclature:

*All part numbers in the above series are denoted by a combination of alphanumeric identifiers that represent different configurations, mounting options, number of contacts, type, position, plating options, or other options.

Series*	Product type	Max Voltage Rating**	Max Current Rating**	Plastic type
Kx	D-subminiature connectors	48 VDC	7.6A	ABCE
Gx	Modular jacks	48 VDC	1.5A	ABCD
MPx	Modular plugs	48 VDC	1.5A	I
KCDx	Circular DINs	48 VDC	5.0A	AB
KxMDxx	Mini-dins	48 VDC	2.0A	ABCF
KQL/KQLA	Mini-dins	48 VDC	2.0A	AC
MDC	Mini-dins	48 VDC	2.0A	ABCF
STx	Stereo jacks	48 VDC	1.0A	ABCDE
KLPx	RCA jacks	48 VDC	1.0A	ACH
KLDx	Power jacks	48 VDC	3.5A	ABD
KPP/KPJ	PCB/Cable Mount Power jacks	48 VDC	7.5A	AC
KVI	DVI connectors	48 VDC	1.5A	ACE
K-SCART	Scart connectors	80 VAC	1.0A	AB
KUSBx	USB connectors	48 VDC	1.0A	ABE
KMB/KMA/KMAB	USB connectors	48 VDC	1.0A	BE
KFWS/KFWP	IEEE 1394 (Firewire) connectors	48 VDC	1.0A	ABE
37	Miniature Ribbon connectors	48 VDC	5.0A	A
SMPx	Surface-mount PLCC sockets	48 VDC	1.0A	AG
Pxx-LCC	Thru-hole PLCC sockets	48 VDC	1.0A	A
KSOJ	SOJ sockets	48 VDC	1.0A	G
KDM	DIMM sockets	48 VDC	1.0A	BE
KDIMM	DIMM sockets	48 VDC	1.0A	BE
KSW	SIMM sockets	48 VDC	1.0A	BE
KSL	Edge card connectors	48 VDC	3.0A	AC
KCH	Edge card connectors	48 VDC	3.0A	AC
KEISA	Edge card connectors	48 VDC	3.0A	AC
KXTR	Edge card connectors	48 VDC	3.0A	AC
KHDS	Edge card connectors	48 VDC	3.0A	AC
KRC	Edge card connectors	48 VDC	3.0A	AC
KSE*C*KSE*M	Edge card connectors	48 VDC	3.0A	AC
S	Shunts	48 VDC	3.0A	A
KLA/KLC/KMC	Cables and adapters	48 VDC	5.0A	ABCDEFGHI
KFO	Fiber Optic connectors	48 VDC	1.0A	AB
KBH	Battery holders	48 VDC	1.5A	BCE
56	D-subminiature connectors	48 VDC	7.6A	ABCE
22	USB connectors	48 VDC	1.0A	ABE

Description:

1 . Housing:
Plastic types:

Plastic type	Material Type	Manufacturer	Flammability Rating	UL File Card
A	PBT	Nan Ya Plastics	UL 94V-0	E130155(M)
B	Nylon 6T	Mitsui Chemicals	UL 94V-0	E52579(M)
C	Nylon 66	Nytex Composites	UL 94V-0	E135714
D	Nylon 46	Stanyl Products	UL 94V-0	E199177(M)
E	LCP	DuPont	UL 94V-0	E123598(M)
F	HTN	DuPont	UL 94V-0	
G	PPS	Ryton	UL 94V-0	E54700(N)
H	ABS	Chi Mei Corp.	UL 94V-HB	E56070(S)
I	Polycarbonate	GE Plastics	UL 94V-2	E121562

Test Report (SVHC)

No.: SZXEC25001167402 **Date:** Apr 15, 2025

Client Name: DONGGUAN HUSU PLASTIC TECHNOLOGY CO.,LTD

Client Address: NO 11-2 ZONE ONE, TAI PO INDUSTRIAL ZONE, HUAIDE COMMUNITY TOWN, HUMEN TOWN, DONGGUAN CITY

Sample Name: PVC PLASTIC

Material: PVC

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-016846

Sample Receiving Date: Apr 09, 2025

Testing Period: Apr 09, 2025 ~ Apr 15, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
(i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, Potential SVHC screening is performed according to:
(i) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Feb 28, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(iii) Three (3) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

May Bei
Approved Signatory

Scan to see the report

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According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are ≤ 0.1% (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 7 Potential SVHC are ≤ 0.1% (w/w) in the submitted sample.	Pass

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
   http://echa.europa.eu/web/guest/candidate-list-table
   These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
   2.1 Concerning article(s):
   Communication:
   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

   Notification:
   In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

   Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

   2.2 Concerning material(s):
   Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

   If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

   2.3 Concerning substance and preparation:
   If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
   - a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
   - a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
   - a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

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(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Red plastic grains+White plastic grains+Black plastic grains	A1	SZX25-0011674-0001.C001

Test Method:
With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

(1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

(2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.

(4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

(5) / = Potential SVHC

(6) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.

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.

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetrizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	249	Decamethyltetrasiloxane	141-62-8	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
/	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.100
/	251	Resorcinol	108-46-3	0.050
/	252	Dodecamethylpentasiloxane	141-63-9	0.050
/	253	Hexamethyldisiloxane	107-46-0	0.050
/	254	n-hexane	110-54-3	0.050

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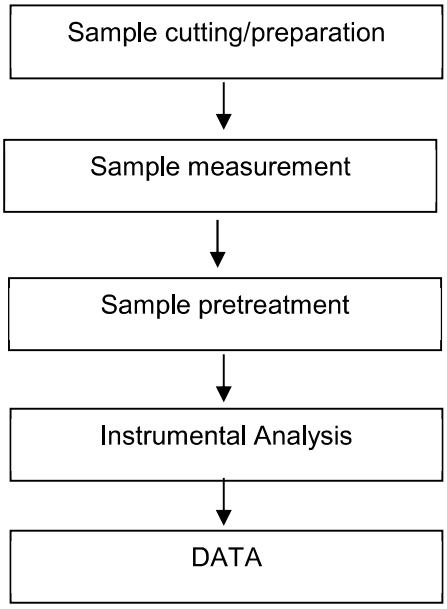
ATTACHMENTS

Testing Flow Chart



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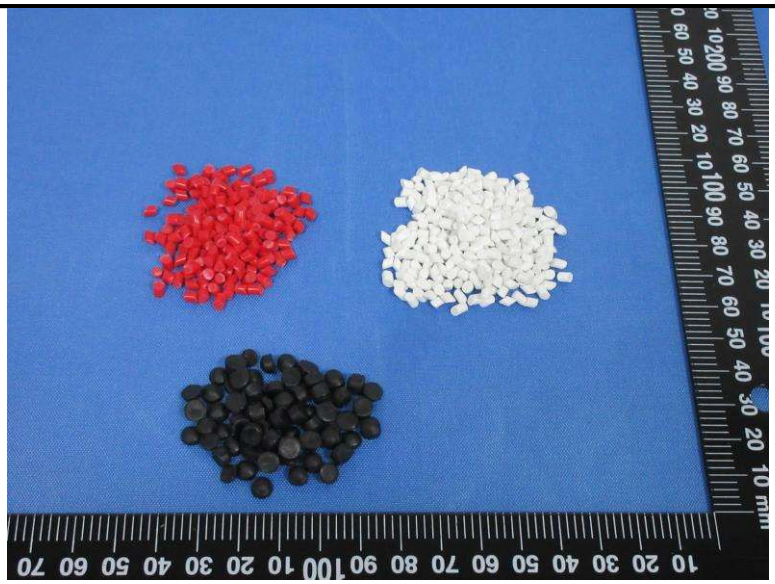
Sample photos:



SZX25-0011674-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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检测报告

编号：SZXEC25000424906　　**日期：**2025 年 02 月 27 日　　

客户名称：　深圳市川华成电工材料有限公司

客户地址：　深圳市龙华新区观澜街道大道 524 号 4 楼

样品名称：　镀锡线

客户参考信息：　0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.14 0.15 0.16 0.17 0.18 0.19 0.20 0.25 0.28 0.29 0.30 0.40 0.50 0.60 0.70 0.80 1.0 1.2 1.3 1.4 1.5 1.8 0.05

以上样品及信息由客户提供。

SGS 工作编号：　SZP25-006413

样品接收时间：　2025 年 02 月 21 日

检测周期：　2025 年 02 月 21 日 ~ 2025 年 02 月 27 日

检测要求：　根据客户要求检测

检测方法：　见后续页。

检测结果：　见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基已基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务有限公司深圳分公司
授权签名

Tina Fan 范萍
批准签署人

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检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SZX25-0004249-0001.C001	带银色镀层的金属线

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检出限
(3) ND = 未检出(< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017，IEC 62321-5:2013， IEC 62321-7-1:2015 和 IEC 62321-12:2023，采用 ICP-OES/AAS，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND

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检测项目	限值	单位	MDL	A1
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND (低于0.10 μg/cm²) 时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

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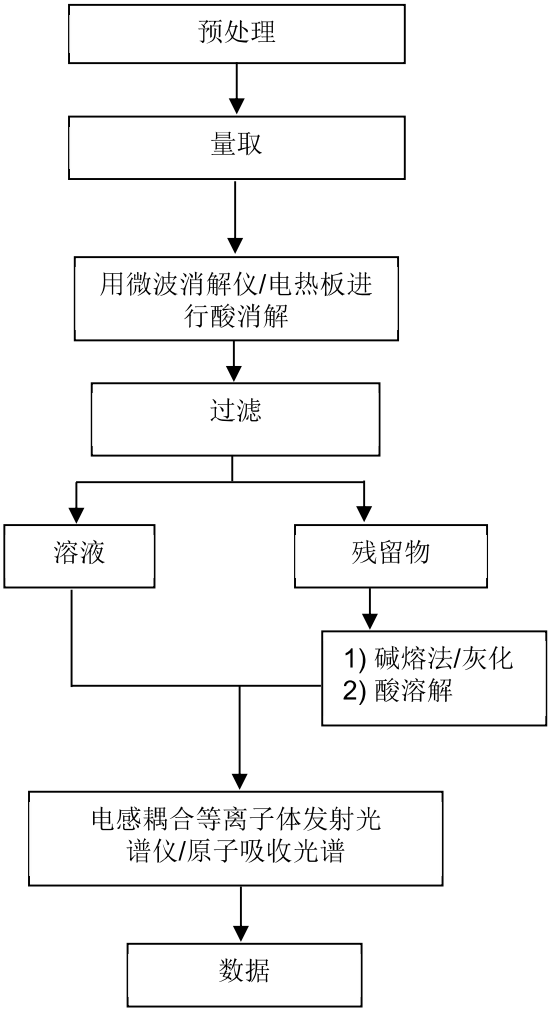
附件

元素检测流程图

样品按照下述流程被完全消解



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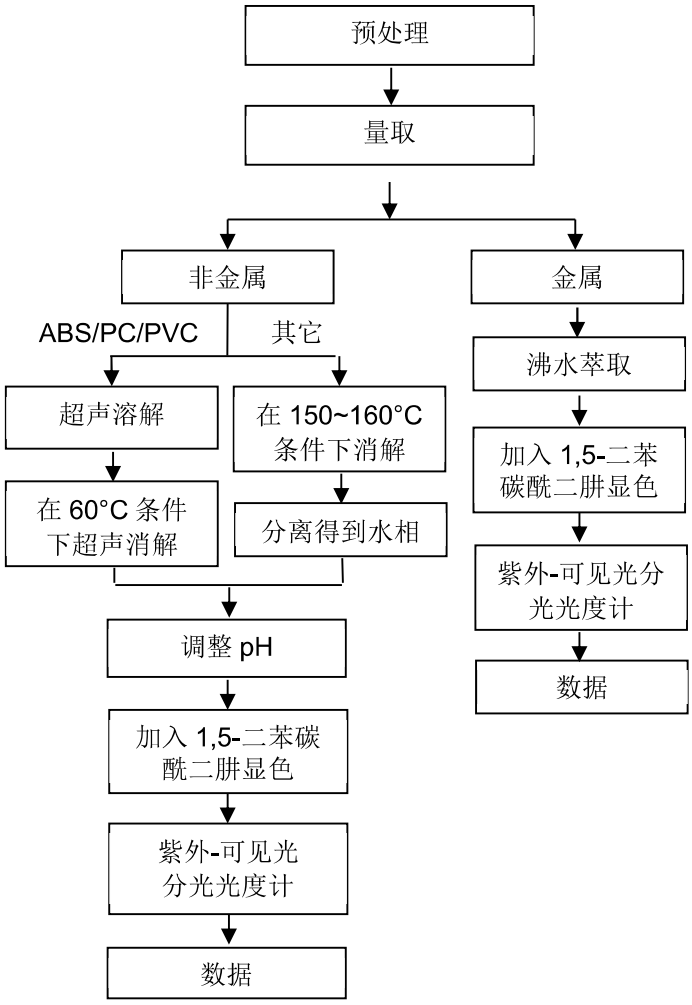
六价铬检测流程图



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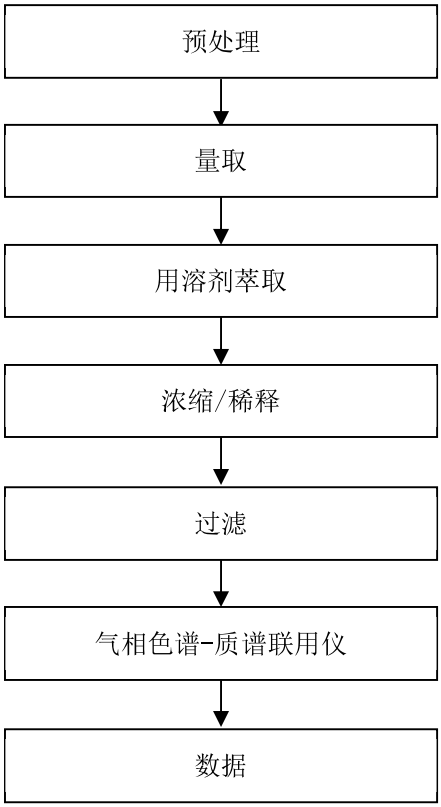
PBB/PBDE/Phthalates 检测流程图



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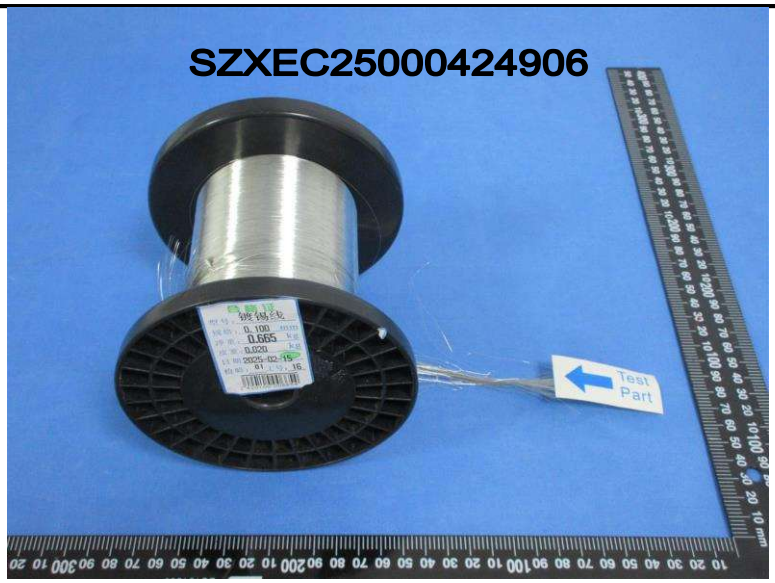
样品照片：



SZX25-0004249-0001.C001

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检测报告
Test Report

委托单位:	东莞市中凯共创电子材料有限公司
Applicant:	DONGGUAN ZHONGKAI GONGCHUANG ELECTRONIC MATERIALS CO.. LTD
单位地址:	广东省东莞市桥头镇大西一路三街 17 号 5 号楼 203 室
Address:	ROOM 203, BUILDING 5, NO.17, 3RD STREET, DAXI 1ST ROAD, QIAOTOU TOWN, DONGGUAN CITY.GUANGDONG PROVINCE

样品名称:	铝箔
Sample Name:	Aluminum foil

以上样品及资料均由客户提供
The above sample(s) and information were provided by the client.

样品接收日期:	2025 年 3 月 18 日
Sample Receiving Date:	March 18, 2025
测试周期	2025 年 3 月 18 日至 2025 年 4 月 10 日
Testing Period:	From March 18, 2025 to April 10, 2025
测试要求	请见下页
Test Requested:	Please refer to next page(s).
测试方法	请见下页
Test Method(s):	Please refer to next page(s).
测试结果	请见下页
Test Result(s):	Please refer to next page(s).

授权签字：
Signed for and on Behalf of SFT

殷勇勇/ 技术经理
Tom Yin / Technical Manager
广东斯富特检测有限公司
Guangdong Safety Testing Co., Ltd.

报告验证码: BJ20250379522
Report Verification Code: BJ20250379522

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检测报告
Test Report

测试结果摘要
SUMMARY OF TEST RESULTS

测试要求 **TEST REQUESTED**	**结论** **CONCLUSION**
依据客户指定，参考RoHS指令2011/65/EU附件II及其修订指令（EU）2015/863测试提交样品中客户指定部位的镉、铅、汞、六价铬、多溴联苯PBBs、多溴二苯醚PBDEs、DBP、BBP、DEHP、DIBP含量。 As specified by client, with reference to RoHS Directive 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 of the selected parts in the submitted sample(s).	合格 PASS

测试结果：请参见下页。
Test Result(s): Please refer to next page(s).

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检测报告
Test Report

测试结果:
Test Result(s):

依据客户指定，参考RoHS指令2011/65/EU附件II及其修订指令（EU）2015/863测试提交样品中客户指定部位的镉、铅、汞、六价铬、多溴联苯PBBs、多溴二苯醚PBDEs、DBP、BBP、DEHP、DIBP含量。
As specified by client, with reference to RoHS Directive 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 of the selected parts in the submitted sample(s).

测试方法 见附录
Test Method(s): Appendix

测试项目 Test Item	限值 Limit (mg/kg)	结果 Result (mg/kg)
		测试编号 Test Component(s)
		1+2
铅 Lead (Pb)	1000	ND
汞 Mercury (Hg)	1000	ND
镉 Cadmium (Cd)	100	ND
六价铬(Cr^{6+}) Hexavalent Chromium (CrVI)	1000	ND
一溴联苯 Monobromobiphenyl	-	ND
二溴联苯 Dibromobiphenyl	-	ND
三溴联苯 Tribromobiphenyl	-	ND
四溴联苯 Tetrabromobiphenyl	-	ND
五溴联苯 Pentabromobiphenyl	-	ND
六溴联苯 Hexabromobiphenyl	-	ND
七溴联苯 Heptabromobiphenyl	-	ND
八溴联苯 Octabromobiphenyl	-	ND
九溴联苯 Nonabromobiphenyl	-	ND
十溴联苯 Decabromobiphenyl	-	ND
多溴联苯总和(PBBs) Sum of PBBs	1000	ND
一溴联苯醚 Monobromodiphenyl ether	-	ND
二溴联苯醚 Dibromodiphenyl ether	-	ND
三溴联苯醚 Tribromodiphenyl ether	-	ND
四溴联苯醚 Tetrabromodiphenyl ether	-	ND
五溴联苯醚 Pentabromodiphenyl ether	-	ND
六溴联苯醚 Hexabromodiphenyl ether	-	ND
七溴联苯醚 Heptabromodiphenyl ether	-	ND
八溴联苯醚 Octabromodiphenyl ether	-	ND
九溴联苯醚 Nonabromodiphenyl ether	-	ND
十溴联苯醚 Decabromodiphenyl ether	-	ND
多溴联苯醚总和(PBDEs) Sum of PBDEs	1000	ND

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邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate (DBP)	1000	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP) Di-(2-ethyl hexyl) phthalate (DEHP)	1000	ND
邻苯二甲酸丁苄酯(BBP) Benzyl butyl phthalate (BBP)	1000	ND
邻苯二甲酸二异丁酯(DIBP) Di-(iso-butyl) phthalate (DIBP)	1000	ND
结论 Conclusion		合格 PASS

注释: ND = 未检出(＜MDL)
Note/Key: ND= Not detected(<MDL)
MDL=方法检出限: 见附录
MDL=Method Detection Limit: See the Appendix
mg/kg = 毫克每千克= ppm=百万分之一
mg/kg = milligram per kilogram = ppm = part per million

备注: 金属材料中的六价铬结果用阳性和阴性进行标示。阴性则表示测试区域不存在六价铬且结果满足欧盟委员会指令 2011/65/EU，第 4(1)章节要求；阳性则表示测试区域存在六价铬且结果与欧盟委员会指令 2011/65/EU，第 4(1)章节要求有冲突。

Remark: Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).

a. 如果 Cr^{6+}的浓度大于 0.13μg / cm^2，则样品中的 Cr^{6+}为阳性。认为样品涂层中含有 Cr^{6+}。
b. 如果 Cr^{6+}为 ND（浓度小于 0.10μg / cm^2），则样品中的 Cr^{6+}为阴性。该涂层被认为是非 Cr^{6+}基涂层。
c. 0.10μg / cm^2 至 0.13μg / cm^2 之间的结果被认为是不确定的，不可避免的涂层变化可能会影响存储条件的确定信息，并且无法获得被测样品的生产日期，因此 Cr^{6+}结果代表当时样品的状态测试。

a. The sample is positive for Cr^{6+} if the Cr^{6+} concentration is greater than 0.13μg/cm2, The sample coating is considered to contain Cr^{6+}.
b. The sample is negative for Cr^{6+} if the Cr^{6+} is ND. (concentration less than 0.10μg/cm2), The coating is considered a non-Cr^{6+} based coating.
c. The result between 0.10μg/cm2 and 0.13μg/cm2 is considered to be inconclusive-unavoidable coating variations may influence the determination information on storage conditions and production date of the tested sample is unavailable and thus Cr^{6+} results represent status of the sample at the time of testing.

样品混合测试基于申请人要求
Composite testing(s) was/were specified by client

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附录 APPENDIX:

测试项目、方法检出限、测试方法 [欧盟委员会指令 2011/65/EU &(EU) 2015/863]: Test Item, MDL, Test Method [European Council Directive 2011/65/EU&(EU) 2015/863]:			
序号 No.	测试项目 Test Item	MDL	测试方法 Test Method(s)
1	铅 Lead (Pb)	10mg/kg	参考 IEC 62321-5: 2013 With reference to IEC 62321-5: 2013
2	镉 Cadmium (Cd)	10mg/kg	
3	汞 Mercury (Hg)	10mg/kg	参考 IEC 62321-4: 2013+AMD1:2017 With reference to IEC 62321-4: 2013+AMD1:2017.
4	六价铬(Cr^{6+}) Hexavalent Chromium (CrVI)	金属 Metal： 0.10μg/cm^2 非金 Non-metal： 10mg/kg	金属 Metal: 参考 IEC 62321-7-1:2015 With reference to IEC 62321-7-1:2015. 聚合物&电子产品 Polymers & Electronics: 参考 IEC 62321-7-2:2017 With reference to IEC 62321-7-2:2017.
5	多溴联苯 (PBBs) Polybromobiphenyls -一溴联苯 Bromobiphenyl -二溴联苯 Dibromobiphenyl -三溴联苯 Tribromobiphenyl -四溴联苯 Tetrabromobiphenyl -五溴联苯 Pentabromobiphenyl -六溴联苯 Hexabromobiphenyl -七溴联苯 Heptabromobiphenyl -八溴联苯 Octabromobiphenyl -九溴联苯 Nonabromobiphenyl -十溴联苯 Decabromobiphenyl	50mg/kg （每项 each）	参考 IEC 62321-6: 2015 With reference to IEC 62321-6: 2015.
6	多溴联苯醚 (PBDEs) Polybromodiphenyl ethers -一溴联苯醚 Bromodiphenyl ether -二溴联苯醚 Dibromodiphenyl ether -三溴联苯醚 Tribromodiphenyl ether -四溴联苯醚 Tetrabromodiphenyl ether -五溴联苯醚 Pentabromodiphenyl ether -六溴联苯醚 Hexabromodiphenyl ether -七溴联苯醚 Heptabromodiphenyl ether -八溴联苯醚 Octabromodiphenyl ether -九溴联苯醚 Nonabromodiphenyl ether -十溴联苯醚 Decabromodiphenyl ether	50 mg/kg （每项 each）	
7	邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate (DBP)	50 mg/kg （每项 each）	参考 IEC 62321-8:2017 With reference to IEC 62321-8:2017
8	邻苯二甲酸二(2-乙基己基)酯(DEHP) Di-(2-ethyl hexyl) phthalate (DEHP)		
9	邻苯二甲酸丁苄酯(BBP) Benzyl butyl phthalate (BBP)		
10	邻苯二甲酸二异丁酯(DIBP) Di-(iso-butyl) phthalate (DIBP)		

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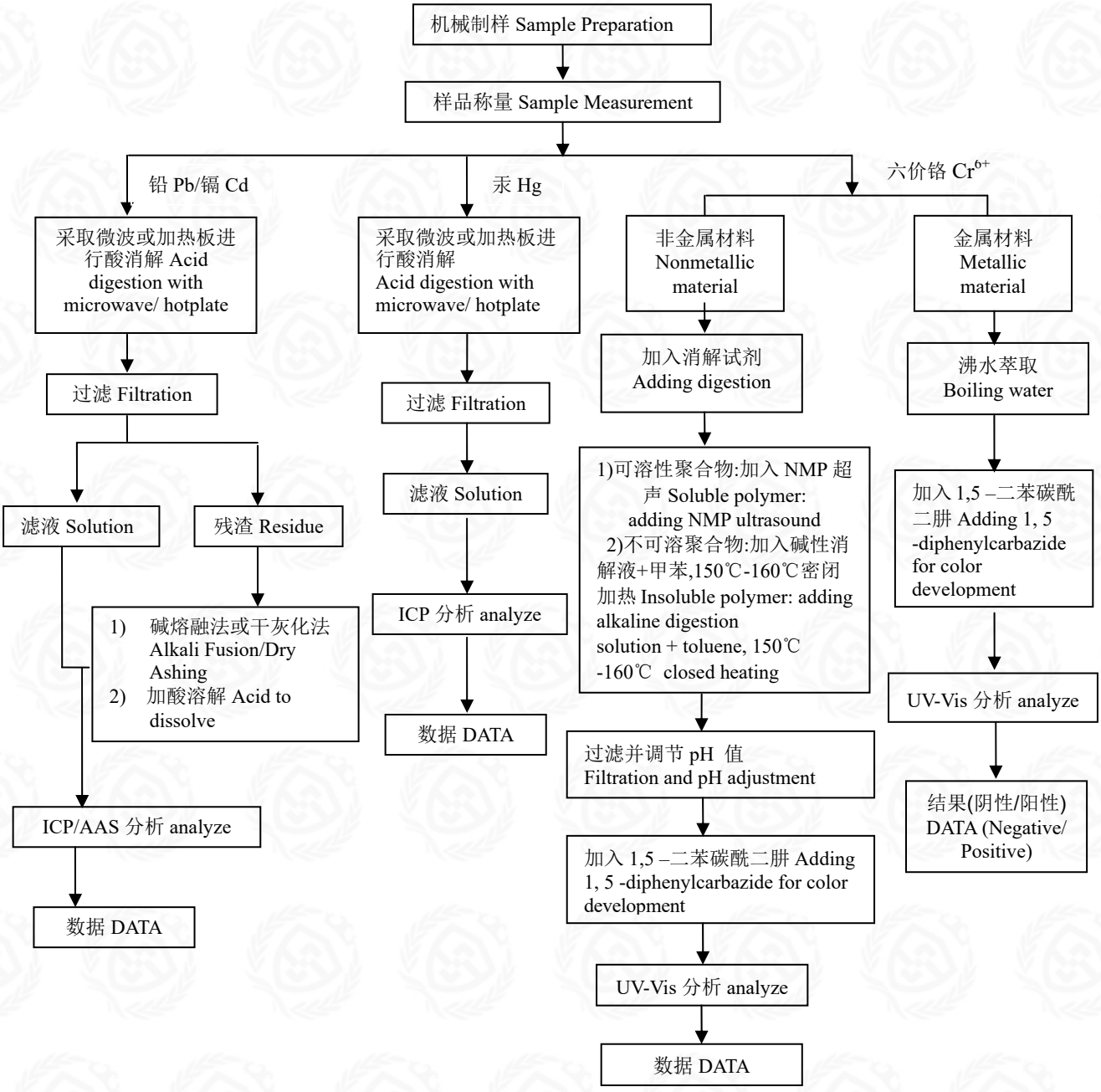
Pb/Cd/Hg/Cr^{6+} 测试流程图 Testing Flow Chart



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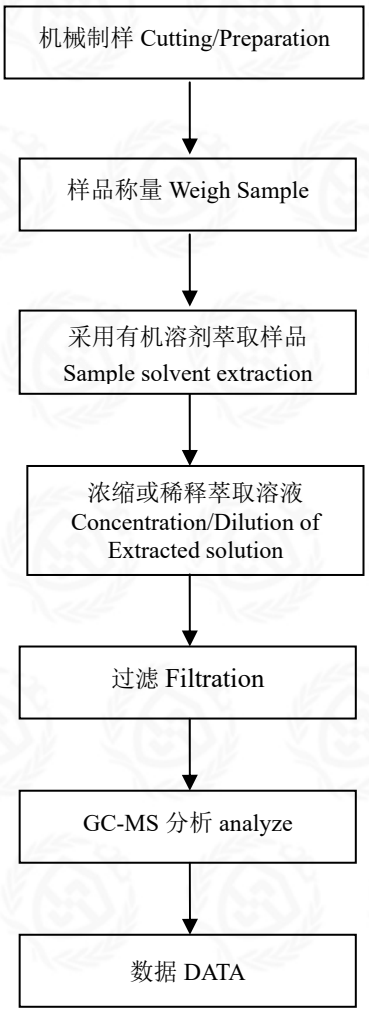
PBB/PBDE 测试流程图 Testing Flow Chart



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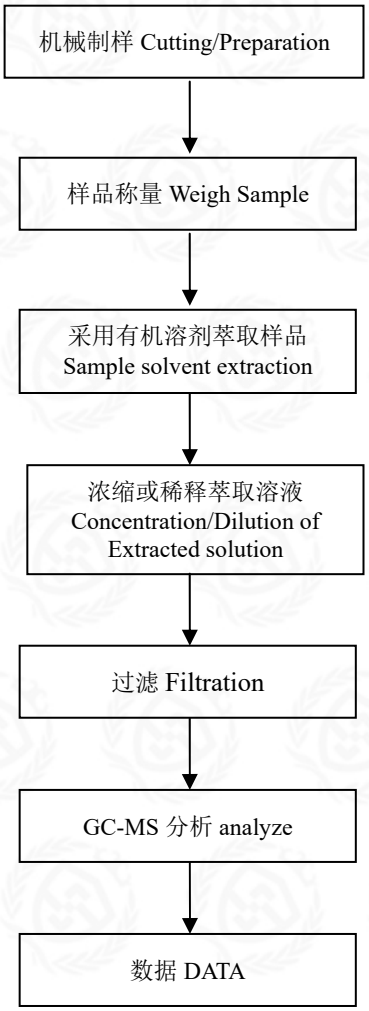
邻苯二甲酸酯 测试流程图 Phthalates Testing Flow Chart



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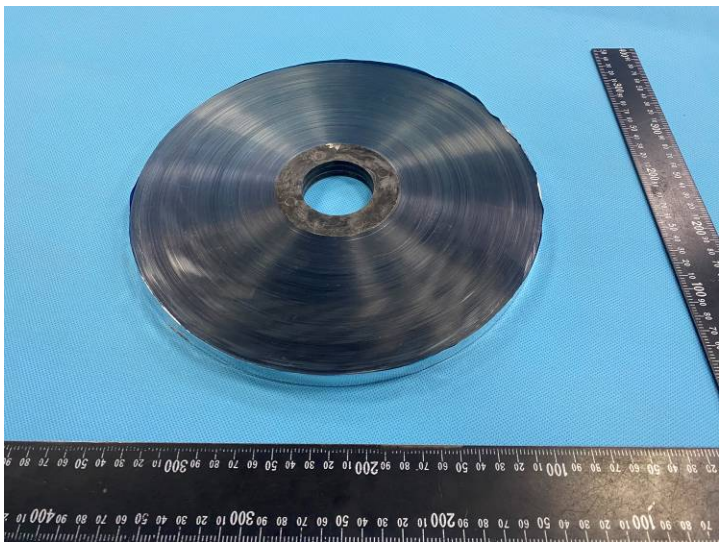
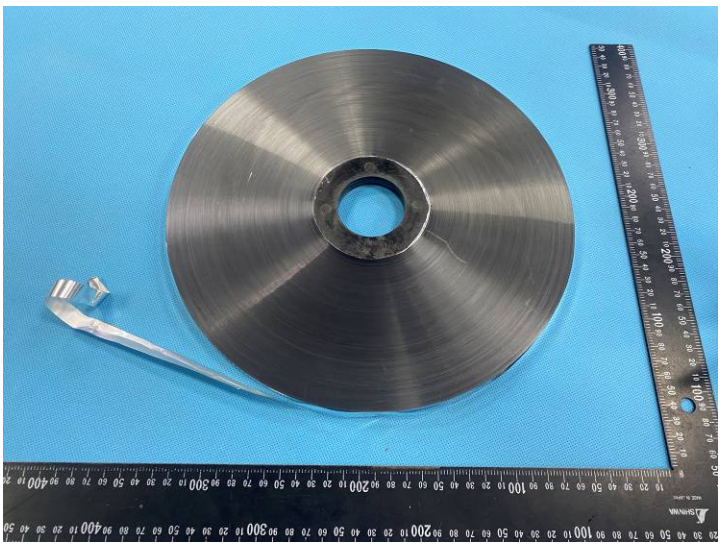
测试编号 Test Component	样品描述（位置） Sample Description/ Location
1	银色/蓝色铝箔 Silvery/blue aluminum foil
2	银色铝箔 Silvery aluminum foil

样品图片
Photo of Sample





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Test Report

Report No. A2240732145101001

Company Name shown on Report	DONGGUAN HAODENGXIN PRECISION MACHINERY CO.,LTD .
Address	ROOM 104, BUILDING B, NO.107, LIYATANG INDUSTRIAL ZONE, LINCUN VILLAGE, TANGXIA TOWN, DONGGUAN CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	白色油墨
Model No.	102
Color	白色
Sample Received Date	Nov. 22, 2024
Testing Period	Nov. 22, 2024 to Nov. 29, 2024

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

Approved by: Iori Xia Date: Nov. 29, 2024

Iori Xia

Lab Authorized Signatory

No. R179757108

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

CTI 华测检测

Test Report

Report No. A2240732145101001

Test Result(s)

Tested Item(s)	Result	MDL
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2240732145101001

Test Result(s)

Tested Item(s)	Result	MDL
	001	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	White ink(dry weight)

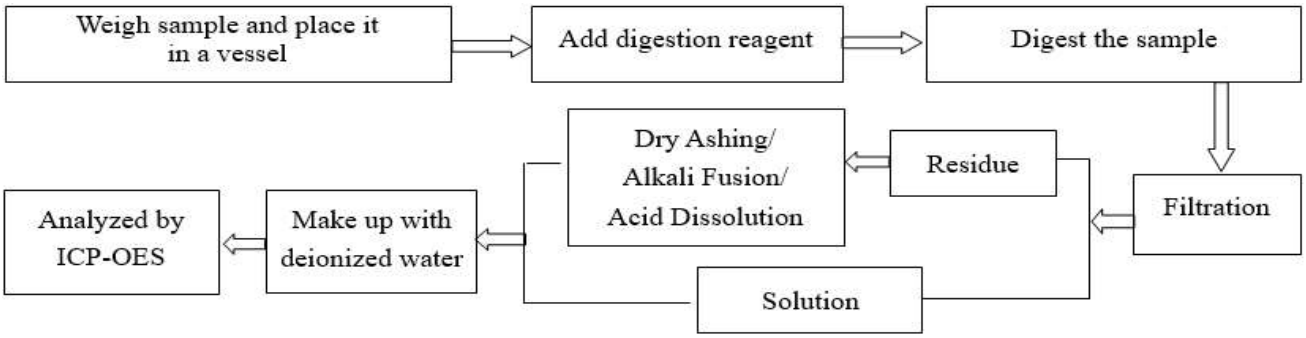
Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-The sample was tested after drying for 2 hours under 105°C.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

Test Report

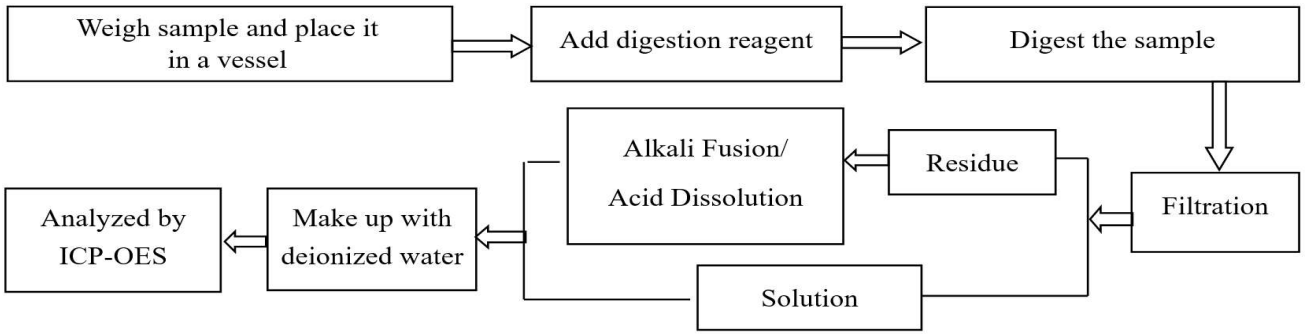
Report No. A2240732145101001

Test Process

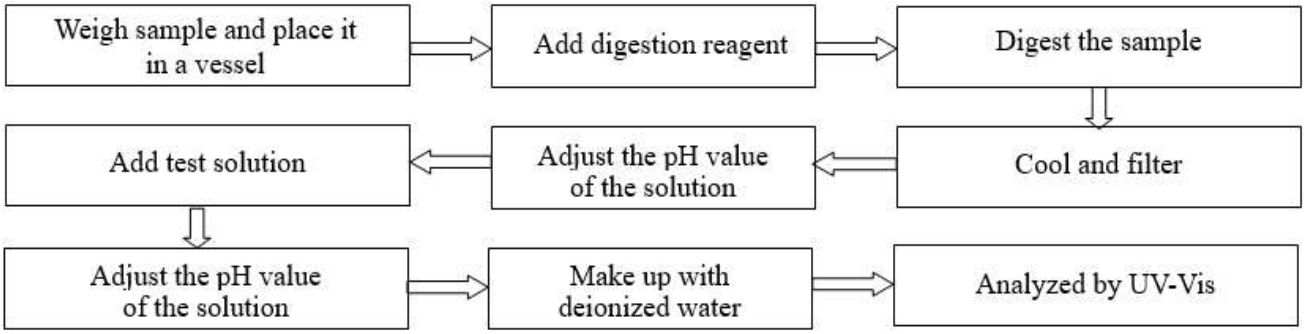
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



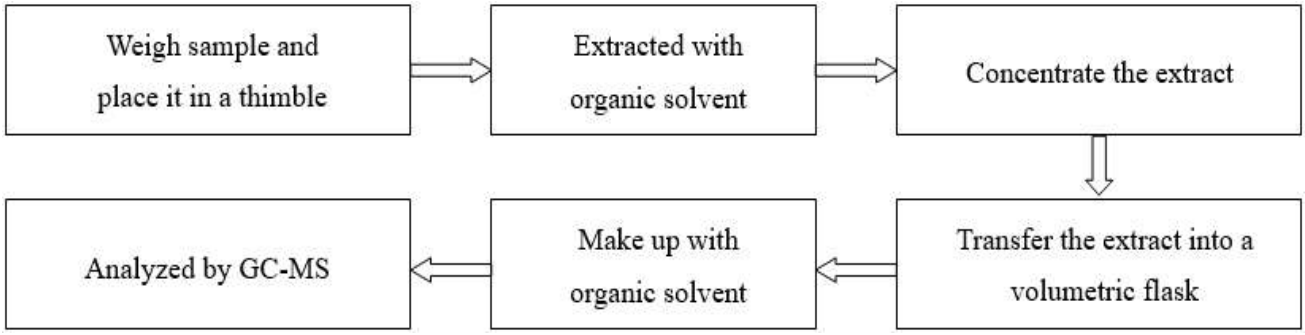
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))

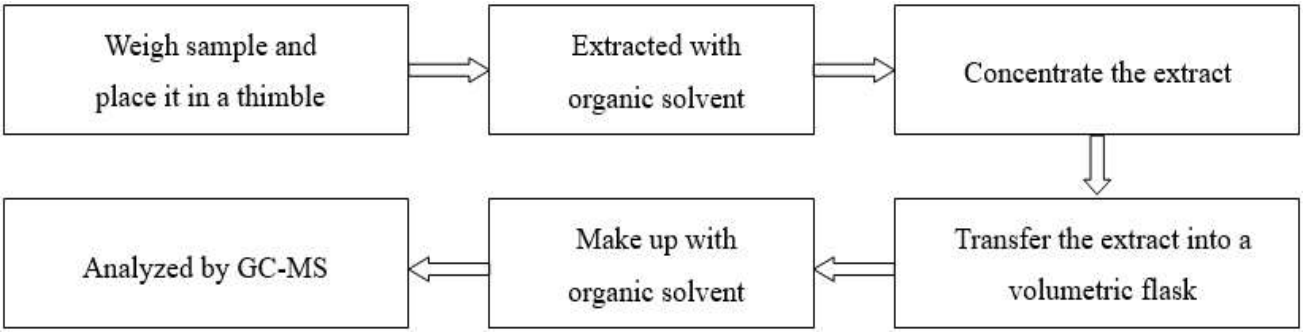


4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



Test Report

5. Phthalates (DBP, BBP, DEHP, DIBP)



Test Report

Report No. A2240732145101001

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 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 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

No.: CANEC24010420805 **Date:** May 24, 2024

Client Name: SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Client Address: WOER INDUSTRIAL PARK,LANJING NORTH ROAD,LONGTIAN STREET,PINGSHAN DISTRICT,SHENZHEN, GUANGDONG.

Sample Name: Black Halogen Free Flame-Retardant Heat shrinkable Tube

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-021696

Sample Receiving Date: May 20, 2024

Testing Period: May 20, 2024 ~ May 24, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kelly Qu
Approved Signatory

scan to see the report
F84B2A4B

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0104208-0001.C001	Black plastic tube

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND

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Test Item(s)	Limit	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND

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.

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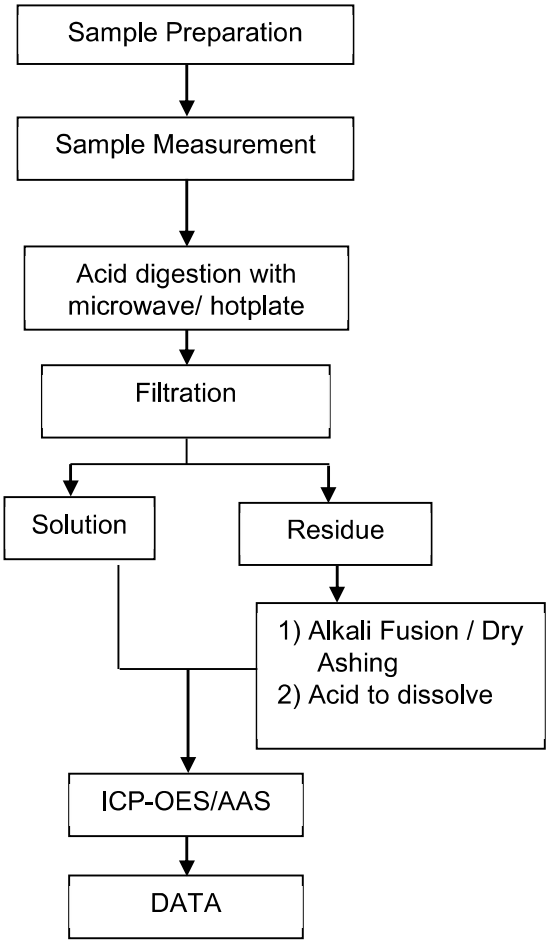
Elements Testing Flow Chart

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



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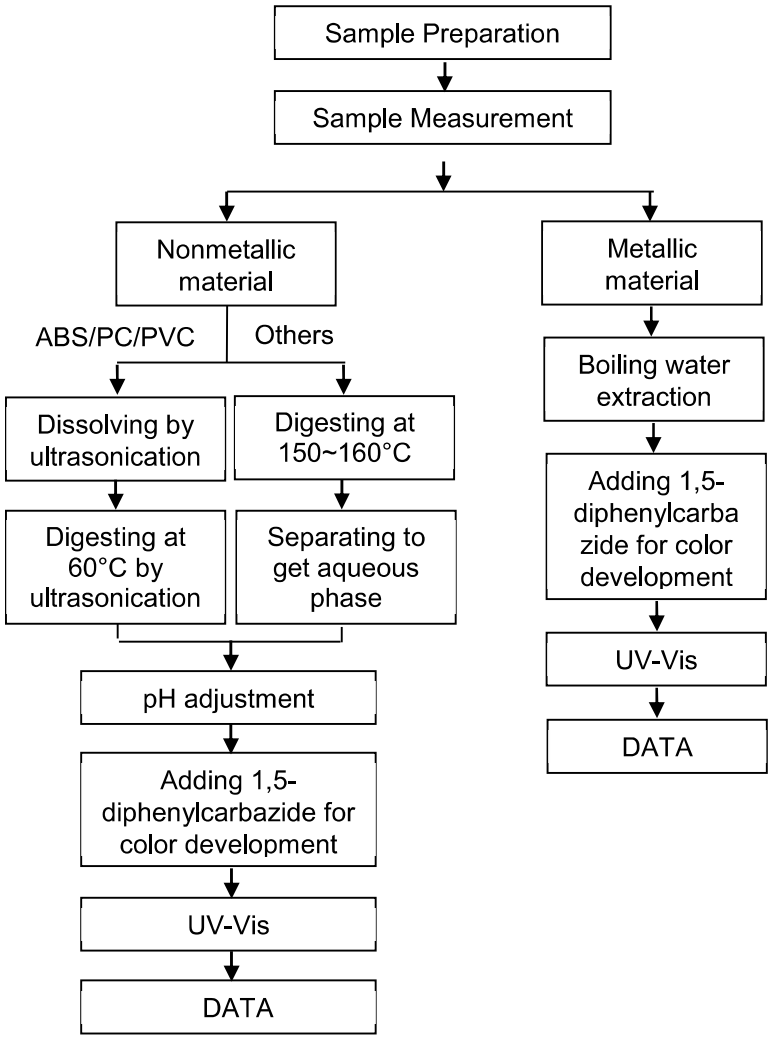
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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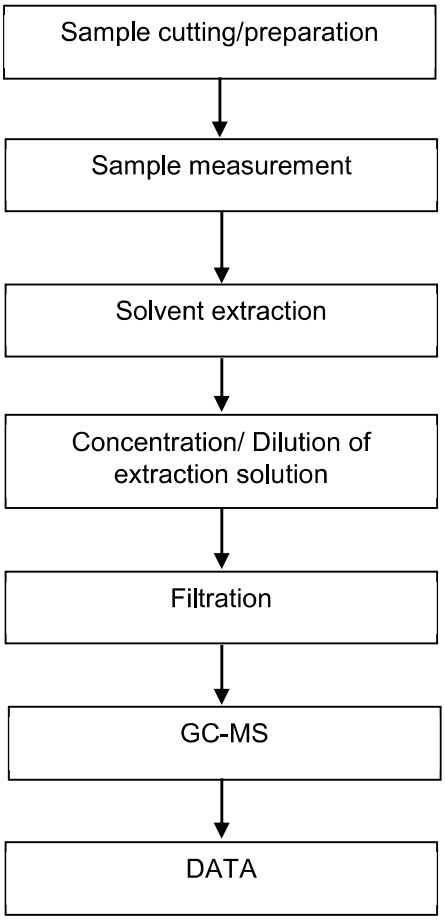
PBB/PBDE Testing Flow Chart



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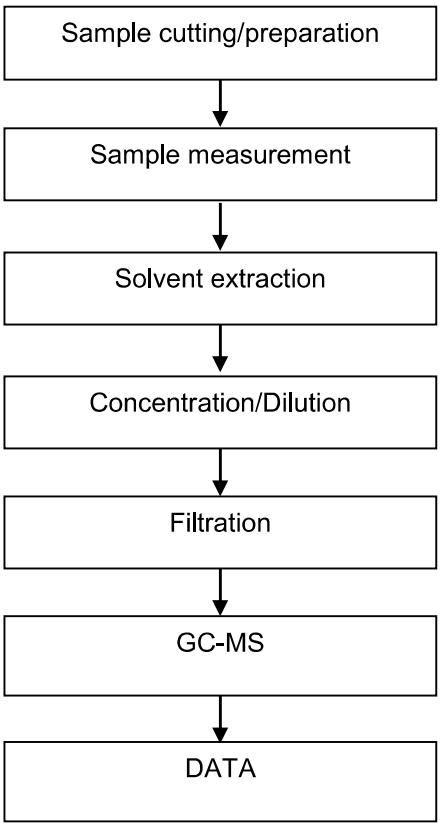
Phthalates Testing Flow Chart



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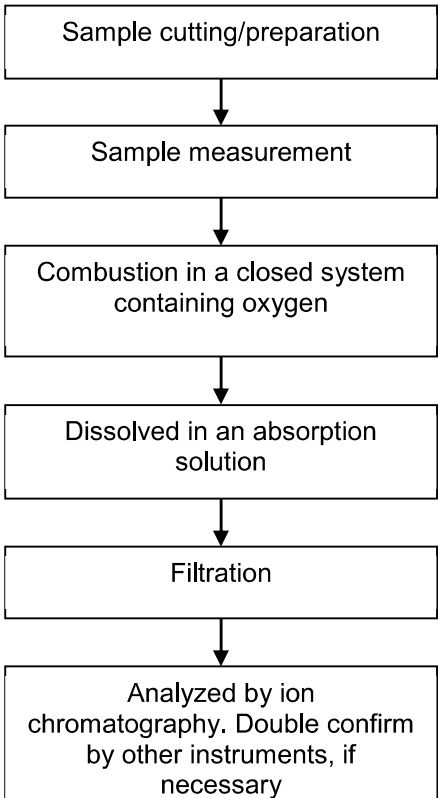
Halogen Testing Flow Chart



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Sample Photo:



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Test Report

No.: SZXEC24001614509 **Date:** Jun 12, 2024

Client Name: GUANGDONG YUEHELE LABEL MATERIAL CO., LTD.

Client Address: NO.38 HUANQI AVENUE, QISHI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Paper class

Client Ref. Information: Copper plate paper, Glossy paper, Writing paper, Kraft paper, Heat transfer paper

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-022036

Sample Receiving Date: May 22, 2024

Testing Period: May 22, 2024 ~ May 27, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan
Approved Signatory

scan to see the report
DA3A6427

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A5	SZX24-0016145-0001.C005	White paper

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A5
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND

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Test Item(s)	Limit	Unit(s)	MDL	A5
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A5
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	64
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

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.

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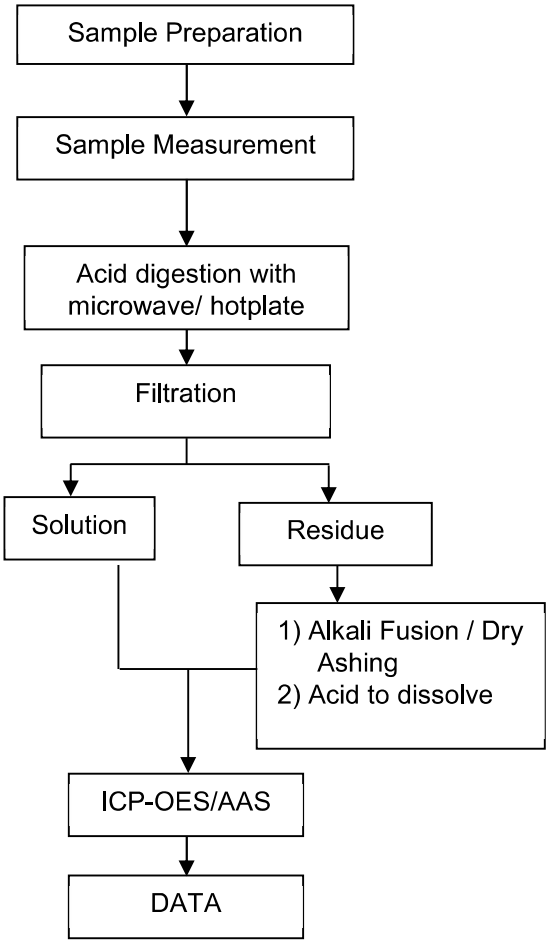
Elements Testing Flow Chart

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



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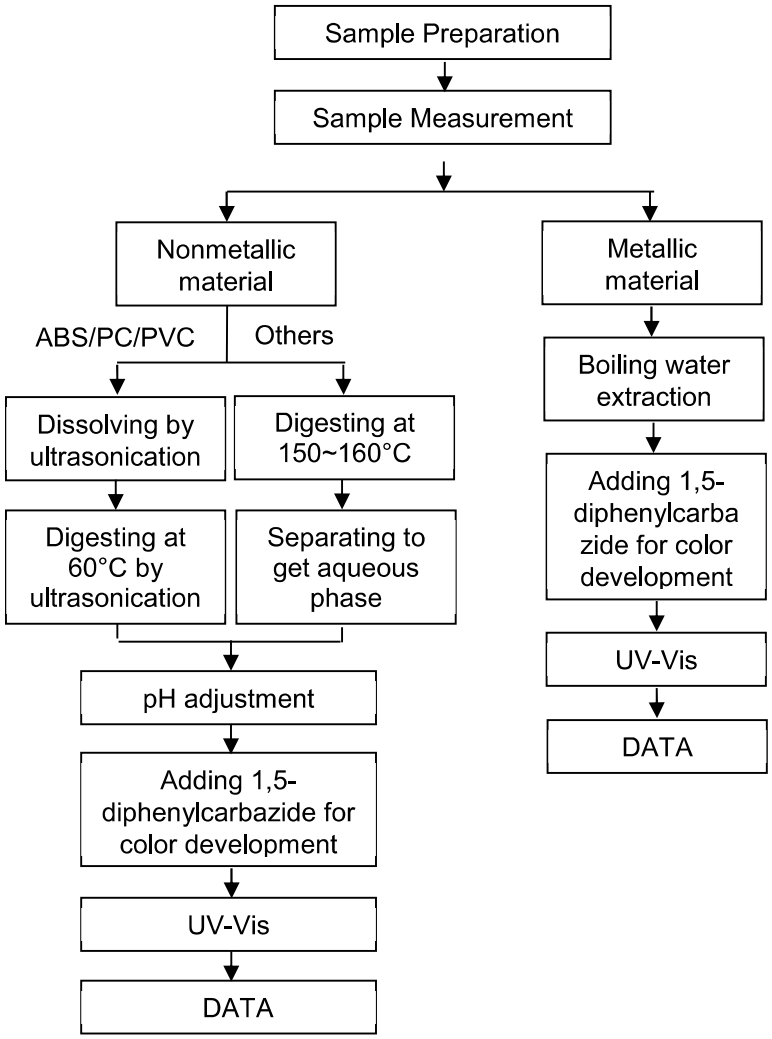
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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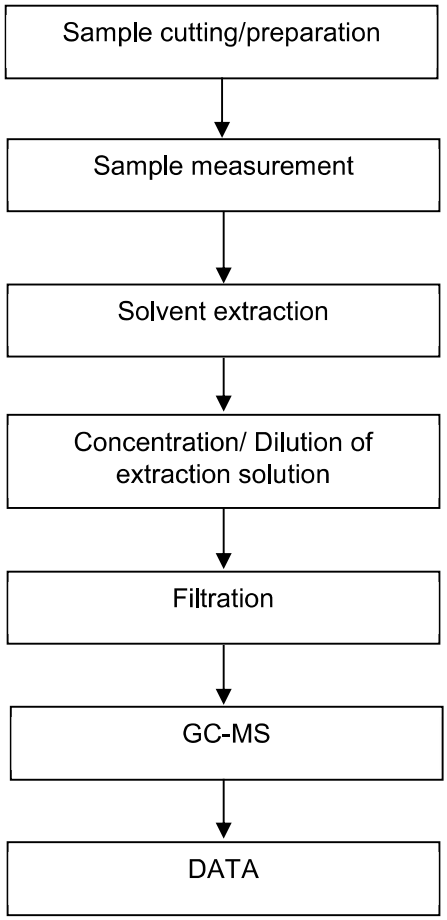
PBB/PBDE Testing Flow Chart



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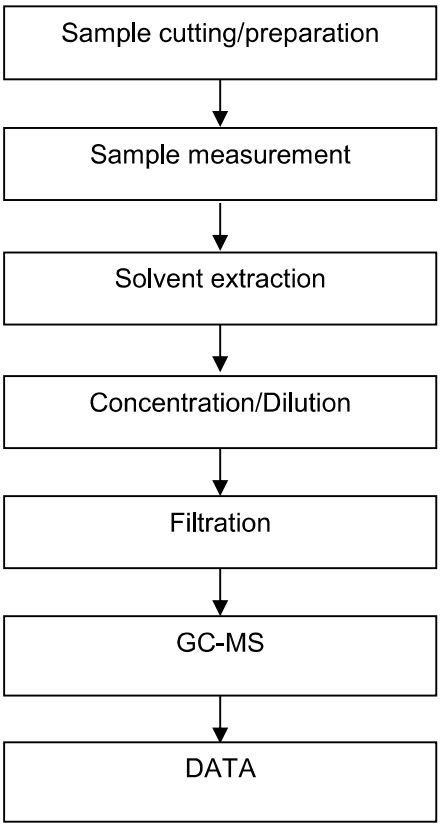
Phthalates Testing Flow Chart



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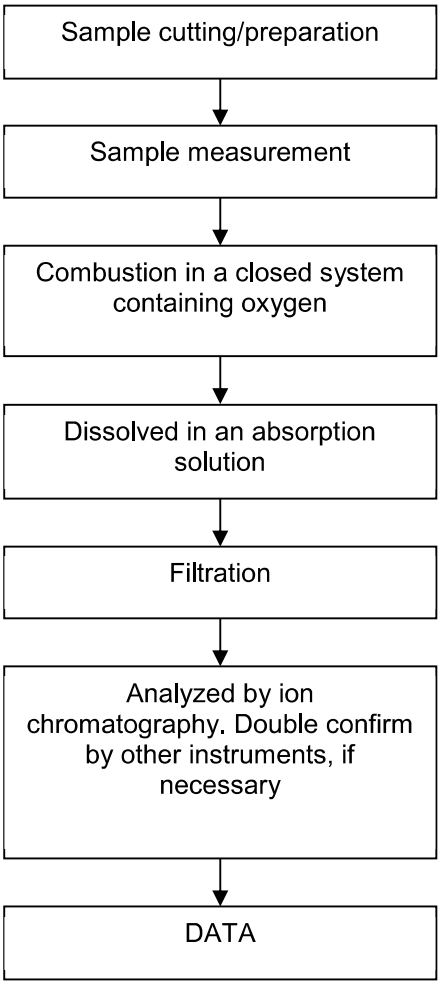
Halogen Testing Flow Chart



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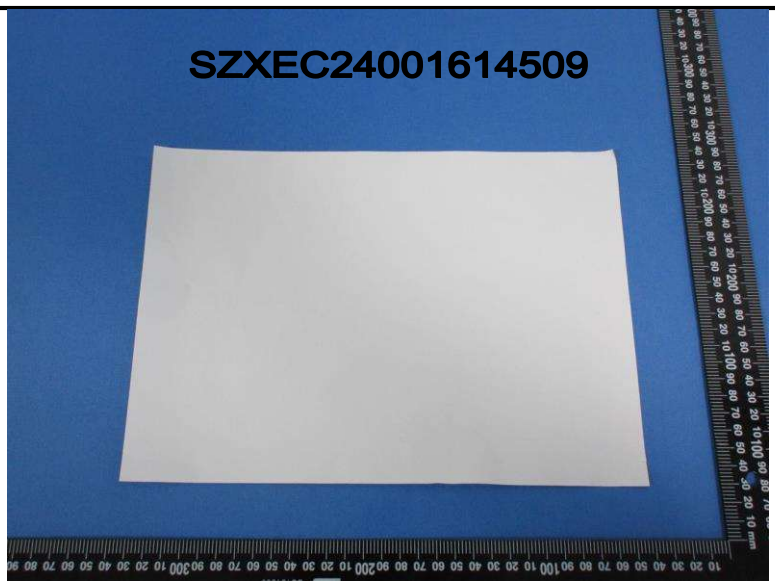
Sample Photo:



SZX24-0016145-0001.C005

SGS authenticate the photo on original report only

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检测报告

编号: ESZ2403210144C00101R　　日期: 2024 年 03 月 27 日　　第 1 页 共 15 页

委托单位 ： 迪爱生投资有限公司
Applicant ： DIC（China）Co.,Ltd
地　　址 ： 上海市娄山关路 555 号长房国际广场 12 楼
Address ： 12F, Metro Plaza, 555 Loushanguan Road, Shanghai

以下检测之样品及样品信息是由申请者提供并确认
The sample and sample information tested below are provided and confirmed by the applicant
样品名称 ： 平版胶印油墨
Sample Name ： Offset Printing Ink
型　　号 ： 见样品描述
Model ： Refer to sample description

接收日期 ： 2024 年 03 月 21 日
Received Date ： Mar. 21, 2024
检测周期 ： 2024 年 03 月 21 日 ~2024 年 03 月 27 日
Test Period ： Mar. 21, 2024~Mar. 27, 2024

检测概要 ：
Test Summary ：

检测项目/Test Item	结论/Conclusion
欧盟指令 2011/65/EU (RoHS)及其修订指令 Directive 2011/65/EU (RoHS) and its Amendments	Pass

注：符合（Pass）；不符合（Fail）；不评价或仅提供检测结果（N/A）
Remark: Pass: Meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclusions or provide test results only.

苏州市信测标准技术服务有限公司 检验检测专用章

代表
苏州市信测标准技术服务有限公司

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2024 年 03 月 27 日

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检测报告

样品描述 Sample Description （以下检测之样品及样品信息是由申请者提供并确认
The sample and sample information tested below are provided and confirmed by the applicant）

样品序号 Sample No.	样品编号 Sample Number	数 量 Quantity
1	E2403210144-01	200g

生产商 Producer
南通迪爱生色料有限公司 Nantong DIC Color Co.,Ltd. 迪爱生（东莞）油墨有限公司 DIC（DongGuan）INK Co.,Ltd. 迪爱生（沈阳）油墨有限公司 DIC（ShenYang）INK Co.,Ltd.

型 号 Model：
4105 胶印快干油墨 黄/红/蓝/黑
PD09BOOKSAFE 黄/红/蓝/黑 BOOKSAFE YELLOW/ MAGENTA/ CAYN/ BLACK
BOOKSAFE 书香低气味环保油墨 黄/红/蓝/黑/红相黄
绿尚低气味环保油墨&绿尚低气味环保油墨(S 型) 黄/红/蓝/黑/特黑
CARTON 哑粉纸用 黄/红/蓝/黑
NCP PT YELLOW C（标准)
NCP PT YELLOW 012C 深黄（标准)
NCP PT ORANGE 021C 橙（标准)
NCP PT WARM RED C 金红（标准)
NCP PT RED 032C 大红（标准)
NCP PT RUBINE RED C 洋红（标准)
NCP PT RHODAMINE RED C 桃红（标准)/
NCP PT PURPLE C 红紫（标准)
NCP PT VIOLET C 兰紫（标准)
NCP PT BLUE 072 深兰（标准)
NCP PT REFLEX BLUE C 射光兰（标准)
NCP PT PROCESS BLUE C 天兰（标准)
NCP PT GREEN C 绿（标准)
NCP PT YELLOW C（ZD)
NCP PT YELLOW 012C 深黄（ZD)
NCP PT ORANGE 021C 橙（ZD)
NCP PT WARM RED C 金红（ZD)
NCP PT RED 032C 大红（ZD)
NCP PT RUBINE RED C 洋红（ZD)
NCP PT RHODAMINE RED C 桃红（ZD)
NCP PT PURPLE C 红紫（ZD)
NCP PT VIOLET C 蓝紫（ZD)

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检测报告

NCP PT BLUE 072 深兰（ZD)
NCP PT REFLEX BLUE C 射光兰（ZD)
NCP PT PROCESS BLUE C 天兰（ZD)
NCP PT GREEN C 绿（ZD)
NCP PT 299C(耐晒)(浦东出版)
NCP DIC 4 版 2530(耐晒)印刷集团
NCP 强生蓝（耐晒耐磨）（上海出版印刷）
NCP PT 135C(耐晒)(上海汉利)
NCP PT 2748C(耐晒)(上海出版)
NCP 江山精品耐晒底黄-1（上海烟印厂）
NCP PT 293C（耐晒）（上海出版）
NCP PT7471C 耐晒（美美）
NCP P127 耐晒金光红
NCP PT344C 耐晒绿（上海汉利）
NCP PT 264C(耐晒)(浦东出版)
NCP PT 376C(新)(耐晒)
NCP PT187C 耐晒红（上海汉利）
NCP PT106C 耐晒黄（上海汉利）
NCP PT109C 耐晒黄（上海汉利）
NCP PT335C 耐晒绿（上海汉利）
NCP PT3248C 耐晒绿（上海汉利）
NCP PT3278C 耐晒绿（上海汉利）
NCP PT2685C 耐晒紫（上海汉利）
NCP PT707C 耐晒红（上海汉利）
NCP PT7734C 耐晒绿（上海汉利）
NCP 印象 PT151C 橙（耐晒）
NCP 发达桔黄(耐晒)(青岛发达)
NCP PT242C 耐晒紫(上海汉利)
NCP PT2365C 耐晒红(上海汉利)
NCP 耐晒紫（金印联）
NCP PT190 红（耐晒）（上海汉利）
NCP 江山精品耐晒底黄(无钴)(上海烟印)
NCP PT 501C 耐晒红(杭州博源)
NCP PT1505C 耐晒橙(厦门鑫东成)
NCP 耐晒专红(昆山金箭)
NCP D.Y32 耐晒黄
NCP 金晨专蓝(耐晒)
NCP 大富豪纯生耐晒底黄(厦门鑫东成)
NCP 耐晒专粉
NCP 进邦 PT186C 耐晒专红
NCP PT 2665C(耐晒)(浦东出版)
NCP PT 343C(耐晒)(浦东出版)
OFFSET 耐晒原色黄（7 级）

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检测报告

NCP 耐晒专粉 2
NCP 耐晒专绿 A
NCP PT WARM GRAY 1C 耐晒灰
NCP PT4755C 耐晒棕(华美印刷)
NCP PT7540C 耐晒黑(华美印刷)
NCP PT5575C 耐晒绿(华美印刷)
NCP 耐晒专绿 B
NCP TENCO 耐晒橙
NCP 横浜红（耐晒）（小林商标）
NCP 耐晒绿 H
NCP 耐晒专绿(北京索亚)
NCP 耐晒大红(长春汽研)
NCP PT534C 耐晒蓝(长春汽研)
NCP PT2935U 耐晒蓝(长春汽研)
NCP 耐晒浅黄(天河润一)
NCP 铁皮枫斗颗粒绿(耐晒)(上海仁叶)
NCP FG 27 赤金
NCP FG 28 BRONZE RED
NCP FG 31 橙
NCP FG 47 MEDIUM YELLOW 中黄
NCP FG 51 GREEN
NCP FG 66 ULTRAMARINE BLUE
NCP FG MEDIUM 调墨油
NCP CPS-7-007 灰（苏州艾利）
NCP CB-808 白（苏州艾利）
NCP CPS-4-004 绿（苏州艾利）
NCP CPS-3—004 粉（苏州艾利）
NCP CPS-3-009 红（苏州艾利）
NCP CPS-6-006 紫（苏州艾利）
NCP CPS-2-022 橙（苏州艾利）
NCP CPS-5-005 蓝（苏州艾利）
NCP CPS-1-001 黄（苏州艾利）
NCP CB-826 透明白（苏州艾利）
NT 冲淡剂
NCP 谷粒多燕麦牛奶字体红(11)(伊利集团)
NCP AD 钙优酸乳蓝 22（伊利集团）
NCP HDPE 草莓红(伊利集团)
NCP PET 安慕希蓝 34(伊利集团)
NCP PET 草莓红 12（伊利集团）
NCP PET 原味绿 04（伊利集团）
NCP QQ 星花色牛奶黄 17（伊利集团）
NCP QQ 星黄 16（伊利集团）
NCP QQ 星均膳金 20（伊利集团）

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检测报告

NCP QQ 星营养果汁酸奶草莓红 31（伊利集团）
NCP 安慕希蓝 23（伊利集团）
NCP 爆趣珠专红(伊利集团)
NCP 爆趣珠专绿(伊利集团)
NCP 草莓红 1(10)(伊利集团)
NCP 草莓红 1（耐晒）10（伊利集团）
NCP 畅意绿 03（伊利集团）
NCP 儿童常温酸奶蓝 24（伊利集团）
NCP 谷粒多燕麦牛奶底色淡黄(09)(伊利集团)
NCP 果汁优绿(伊利集团)
NCP 果汁优酸乳哈密瓜绿 06（伊利集团）
NCP 核桃乳红 13（伊利集团）
NCP 红黑谷金(伊利集团)
NCP 红黑谷飘带字体金 19（伊利集团）
NCP 金典绿（伊利集团）
NCP 金典绿 01（伊利集团）
NCP 蓝莓紫 14（伊利集团）
NCP 芒果黄 15（伊利集团）
NCP 乳饮品香蕉味黄 26（伊利集团）
NCP 舒化蓝(伊利集团)
NCP 舒化蓝 21（伊利集团）
NCP 舒化绿(伊利集团)
NCP 舒化绿 02（伊利集团）
NCP 舒化全脂蓝 30（伊利集团）
NCP 甜味奶黄 25（伊利集团）
NCP 味可滋哈密瓜绿(伊利集团)
NCP 味可滋哈密瓜绿 07（伊利集团）
NCP 味可滋木瓜色 27（伊利集团）
NCP 味可滋巧克力牛奶色 29（伊利集团）
NCP 无菌砖巧克力色 28（伊利集团）
NCP 香蕉黄（耐晒）18（伊利集团）
NCP 香蕉黄 18（伊利集团）
NCP 伊利草莓果粒蓝 2
NCP 伊利畅轻专绿 8
NCP 伊利发酵乳复原乳专浅蓝 5
NCP 伊利红枣专红 6
NCP 伊利黄桃果粒粉红 3
NCP 伊利炭烧褐色 1
NCP 伊利味浓绿 7
NCP 伊利益消专绿 4
NCP 优酸乳哈密瓜绿 08（伊利集团）
NCP 原味优酸乳绿 05（伊利集团）
NCP 亮光油墨（大红）

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检测报告

NCP 亮光油墨（金光红）
NCP 亮光油墨椰果专蓝
NCP 亮光油墨 2597C 专紫
NCP 亮光油墨 2395C 专桃红
NCP 胶印亮光油墨 1807C 红
Y740 耐晒红相黄
万唯教育 专绿/冷固金红
PACKSAFE 亮彩 亮光快干环保油墨& PACKSAFE 亮彩 亮光快干环保油墨（S 型） 透明黄/红/蓝/黑/红相黄
PD09 高光大豆油环保油墨& PD09 高光大豆油环保油墨 （S 型） 黄/红/蓝/黑/红相黄
PD06 耐磨大豆油环保油墨& PD06 耐磨大豆油环保油墨 （S 型） 黄/红/蓝/黑/红相黄
POST D CUP 3 黄/红/蓝/黑/红相黄
新冠军 SAT ON&新冠军 SAT ON（S 型） 黄/红/蓝/黑/ NO.2 红
YM100-A & YM100-A（S 型） 黄（透明黄）/黄（中黄）/红/蓝/黑/红相黄
宝迪 黄/红/蓝/黑
宝鼎 NO.3 黄/红/NO.3 蓝/黑
宝凤 黄/红/蓝/黑 PHOENIX YELLOW/ MAGENTA/ CAYN/ BLACK
宝凤 （不结皮型）黄/红/蓝/黑 PHOENIX （Non-skinning Type）YELLOW/ MAGENTA/ CAYN/ BLACK
宝凤 QD 黄/No2/红/蓝/黑 PHOENIX QD YELLOW/ No2 YELLOW/MAGENTA/ CAYN/ BLACK
宝凤 SOY 黄/红/蓝/黑 PHOENIX SOY YELLOW/MAGENTA/CYAN/BLACK
宝鹤 黄/红/蓝/黑
宝鹤（YH）透明黄/红
宝鹤 透明黄 BZ
宝鲸 黄/NO.2 红/蓝/黑/红相黄
宝麟 黄/红/蓝/黑UNICORN YELLOW/MAGENTA/CYAN/BLACK
新宝麟 黄/红/蓝/黑 NEW UNICORN YELLOW/MAGENTA/CYAN/BLACK
新宝鹭 黄/ NO.2 黄/红/蓝/黑/黑（H 型）
宝鹭&宝鹭 （S 型） 透明黄/红相黄/红/蓝/黑/特黑
新宝马 黄/红/蓝/黑
宝狮&宝狮 （S 型） 透明黄/红相黄/黄/红/蓝/黑/特黑
宝狮 PLUS （S 型）黄/红/蓝/黑
宝狮 NO.2 黄/红
宝狮 KH 红
宝燕 HD 透明黄/红相黄/红/蓝/黑/2#红
宝燕 HD （S 型）透明黄/红相黄/红/蓝/黑/特黑
宝燕 HD（SHHP） 透明黄/红相黄/红/蓝/黑
宝燕 HD（SHHP)（S 型） 透明黄/红相黄/红/蓝/黑
宝燕 QD 黄/ NO.2 黄/红/蓝/黑
宝燕 特黑 HD
宝印 QD&宝印 QD（S 型） 黄/红/蓝/黑/特黑
宝印 QD NO.2&宝印 QD NO.2（S 型） 黄/红/蓝/黑
彩冠&彩冠（S 型）黄/透明黄/红/蓝/黑
彩通高光泽不结皮 黄/红/蓝/黑
彩通快干亮光不结皮 黄/红/蓝/黑

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检测报告

彩通高浓度不结皮 黄/红/蓝/黑
福龙 黄/红/蓝/黑 DRAGON-FC SOY YELLOW/MAGENTA/CYAN/BLACK
福龙 YT&福龙 YT（S 型） 红相黄/黄/红/蓝/黑
福思 黄/红/蓝/黑 FUSION-G YELLOW/MAGENTA/CYAN/BLACK
福思（AR）黄/红/蓝/黑/ NO.2 红
福思 QD 黄/红/蓝/黑/NO2 黑
格瑞尔（GREONE）300 不结皮环保油墨 红相黄/黄/红/蓝/黑
格瑞尔（GREONE）800 不结皮环保油墨 黄/ NO.2 黄/红相黄/ NO.2 红/红/蓝/黑/NO.2 黑
格瑞尔（GREONE）800 不结皮环保油墨（H 型）黄/红相黄/红/蓝/黑
格瑞尔（GREONE）800 不结皮教科书专用 黄/红/蓝/黑/NO.2 黑
格瑞尔（GREONE）800 PLUS 不结皮环保油墨 黄/红相黄/红/蓝/黑 o
鸿印 黄/红/蓝/黑/#2 黄/红相黄
虹彩 高光不结皮油墨 红相黄/黄/红/蓝/黑
金豹 黄/红/蓝/黑
晶通 G 黄/红/蓝/黑
普仕快干型油墨 FD21 红相黄/黄/红/蓝/黑
千秋智业 黄/红/蓝/专桔红/专绿
通彩&通彩（S 型） 透明黄/红相黄/中黄/红/蓝/黑
图腾 合印 100 型 黄/红/蓝/黑
文轩墨 1-4 黄/红/蓝/黑
新 BOX 黄/红/蓝/黑/2#红
新 BOX（S 型）黄/红相黄/红/蓝/黑
新宝龙 黄/红/蓝/黑 DRAGON-FC YELLOW/MAGENTA/CYAN/BLACK
新宝龙 E 黄/红/蓝/黑 DRAGON-FC E YELLOW/MAGENTA/CYAN/BLACK
新宝龙（教科书专用）黄/红/蓝/黑/
NCP PT BLACK C 黑（ZD)
NCP D. SPECIAL BLACK 特黑& NCP D. SPECIAL BLACK (S 型)
NCP D. SPECIAL BLACK H 特黑
新宝龙 TK 黄/红/蓝/黑
新飞马&新飞马（S 型） 黄/红/蓝/黑 PEGASUS YELLOW/MAGENTA/CYAN/BLACK
新飞马 NO.2&新飞马 NO.2（S 型） 黄/红/蓝/黑/
新风尚 黄/红/蓝/黑
新金冠 黄/耐晒黄/红/蓝/黑/NO.2 黄/特黑 NEWCAPS-G YELLOW/MAGENTA/CYAN/BLACK/ NO.2 YELLOW/SPECIAL BLACK
新金冠 高浓度 黄
新金冠 高光 黄/红/蓝/黑
新金冠 NO1 RR 黄/红/蓝/黑 NEWCAPS-G NO1 RR YELLOW/MAGENTA/CYAN/BLACK
新金冠 E 黄/红/蓝/黑 NEWCAPS-G E YELLOW/MAGENTA/CYAN/BLACK
新金冠 QD 黄/红相黄/红/蓝/黑 NEWCAPS-G QD YELLOW/REDDISH YELLOW/MAGENTA/CYAN/BLACK
新金冠 QD（S 型）黄/红/蓝/黑
新金冠 (RRD) 黄/红/蓝/黑 NEW CAPS-G RRD YELLOW/MAGENTA/CYAN/BLACK
新金冠 (RRD)（S 型） 黄/红/蓝/黑
新金冠 KT&新金冠 KT（S 型） 黄/红/蓝/黑 NEW CAPS-G KT YELLOW/MAGENTA/CYAN/BLACK

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检测报告

新金冠（耐磨）黄/红/蓝/黑
新金冠(HX)& 新金冠(HX) S 型 黄/红/蓝/黑/红相黄
中华商务专用油墨 黄/红/蓝/黑
一方专用油墨&一方专用油墨（S 型） 黄/红/蓝/黑
NEW CAPS-G CY& NEW CAPS-G CY （S 型）透明黄/YELLOW/MAGENTA/CYAN/BLACK
NEW CAPS-G CY NO.2 黄/红/蓝/黑
新金冠 NEW CAPS-G CY SPECIAL 透明黄/红/蓝/黑
金晨专用&金晨专用（S 型） 黄/红/蓝/黑
宝丽 WS NO.2 黄/红/蓝/黑
宝丽 POLARIS H 透明黄/黄/红
新金冠 QD（红相黄）&新金冠 QD（红相黄） (S 型)
新金冠（都能印）&新金冠（都能印） (S 型) 透明黄/红相黄/红/蓝/黑
新金冠 XS 黄/红/蓝/黑
新金冠 TPU 黄/红/蓝/黑
新金冠 TPUDL 黄/红/蓝/黑
新金冠 爱丽丝 RR 黄/红/蓝/黑
NEW CAPS-G NPZ E&NEW CAPS-G NPZ E (S 型) YELLOW/MAGENTA/CYAN/BLACK
NEW CAPS-G NPZ E 红相黄& NEW CAPS-G NPZ E 红相黄 (S 型)
NEW CAPS-G NPZ E& NEW CAPS-G NPZ E (S 型) NO.2 YELLOW/MAGENTA
NEW CAPS-G JF 黄/红/蓝/黑
新金冠 QD 大豆环保油墨&新金冠 QD 大豆环保油墨 (S 型) 黄/红/蓝/黑
中华商务专用 NPZ&中华商务专用 NPZ (S 型) 黄/红/蓝/黑
新金冠 TPU NPZ&新金冠 TPU NPZ (S 型) 黄/红/蓝/黑
新金冠 KT 红相黄&新金冠 KT 红相黄（S 型）
新金冠 TPU NPZ 红相黄&新金冠 TPU NPZ 红相黄 (S 型)
宝丽（义乌万盛）&宝丽（义乌万盛）(S 型)& 宝丽（义乌万盛 (H 型) 黄/红/蓝
新金冠 PRINT STAR 大豆环保油墨&新金冠 PRINT STAR 大豆环保油墨（S 型） 黄/红/蓝/黑
宝丽 PLUS H 型&宝丽 PLUS S 型 黄/红/蓝/黑
中华商务专用 NO.2 黄/红/蓝/黑
新境界&新境界 H 红相黄/黄/红/蓝/黑
新境界 SC 红相黄/黄/红/蓝/黑
新境界 SC H 黄/红/蓝/黑
新色彩 黄/ NO.2 黄/红/蓝/黑
炫彩-金伙伴 黄/红/蓝/黑
印象 ELEPRINT-P 黄/红/蓝/黑
印象 ELEPRINT-T 黄/红/蓝/黑
印象 ELEPRINT-T-H 黄/红/蓝/黑
印象 ELEPRINT-R 黄/红/蓝
宝燕 PLUS 红相黄/红/蓝/黑
丽彩高光不结皮 黄/红/蓝/黑
QuickPrint520 合印亮光快干环保油墨 黄/ NO.2 红/蓝/黑
臻澜 LX-650 亮光快干 红相黄/黄/ NO.2 红/红/蓝/黑
臻澜 LX-650 PLUS 亮光快干 黄/红/蓝/黑

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检测报告

新境界 SC 低气味油墨 黄/红相黄/红/蓝/黑
新境界 低气味油墨 黄/红相黄/红/蓝/黑
贤俊龙专用油墨 黄/红/蓝/黑/NO.2 黑/NO.2 黑（内袋）
冠龙（QD） 黄/红/蓝/黑/红相黄
VALUES-G V YELLOW(H)/MAGENTA(HH)/CYAN(HH)/BLACK(H)
金冠 不结皮环保油墨 黄/红/蓝/黑/红相黄
金冠王 不结皮环保油墨 黄/红/蓝/黑/红相黄
新金冠低气味 黄/红/蓝/黑
新金彩 3 黄/红/蓝/黑
新金彩 8 黄/红/蓝/黑
书印 黄/红/蓝/黑/红相黄
书彩 黄/红/蓝/黑/红相黄
书韵（高光） 黄/红/蓝/黑
金蝶 R 红相黄
金蝶 黄/ L 红/蓝/黑
童书低气味 黄/红/蓝/黑
新金冠 Cosmo 低气味 黄/红/蓝/黑
新金冠 韵彩 红相黄/红/蓝/黑
宝燕 GMI 黄/红/蓝/黑
书香 800 大豆环保油墨 黄/红/蓝/黑/红相黄/NO.2 红/NO.2 黑
LY-宝迪 黄/红/蓝/黑/ NO.2 黑
臻澜 LX650 PLUS 黄/红/蓝/黑/红相黄/ NO.2 红
金蝶 黄/L 红/蓝/黑/R 红相黄
长江出版专用油墨 黄/红/蓝/黑
NATURAL PROCESS YELLOW H(NS)/ MAGENTA H(NS)/ CYAN H(NS)/ BLACK H(NS)/BLACK S-1A
SNGHP09SYNERG-HP PROCESS YELLOW/ SNGHP39SYNERG-HP PROCESS MAGENTA/ SNGHP38SYNERG-HP PROCESS CYAN/ SNGHP24SYNERG-HP PROCESS BLACK
SPOT SYNER-G EX SNG19 YELLOW (NW)/ NATURAL PROCESS MAGENTA H1-A(NW)/ SPOT SYNER-G EX SNG17 CYAN (NW)/ SPOT SYNER-G EX SNG16 BLACK (NW)
宝丽 WS NO.3 黄/红/蓝/黑
NCP D.SPECIAL BLACK NO.2
XINJINGJIE FUSION REDDISH YELLOW/MAGENTA/CYAN/BLACK
宝狮-E 红相黄/红/蓝/黑
Post 普仕油墨 CP-20 黄/红/蓝/黑
新金冠 NO.2 黄/红/蓝
冠彩 黄/NO.2 黄/红/NO.2 红/蓝/黑
溢彩 黄/红/蓝/黑/红相黄
悠彩 黄/红/蓝/黑/红相黄/NO.2 黄
悠彩 红（H）
绚彩 黄/红/蓝/黑/红相黄
新金冠 KK 黄/红/蓝/黑/红相黄
金福 RR 黄/红/蓝/黑 ZH
新宝虎 E 透明黄/NO.2 黄/红/蓝/黑
臻澜 HC 570 低气味油墨 黄/红/蓝/黑

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检测报告

5105 胶印快干油墨 黄/红/蓝/黑
格瑞尔 800 PLUS S 红/蓝
格瑞尔 800 PLUS H 红/红相黄
爱丽丝 GP-1 黄/红/蓝/黑
姿彩 红相黄/NO.2 红
灿彩 黄/红相黄/红/蓝/黑
臻澜 ET_360 低气味 NO.2 黄/红相黄/红/蓝/黑
新金冠 YF 蓝
NEW CAPS-G FF YELLOW/MAGENTA/CYAN/BLACK
BookSafe 书香 绿印 125 PLUS 低气味大豆油墨 黄/红相黄/红/蓝/特黑
NEW ADVAN CN YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN CN（S）YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN E YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN E （S）YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN E REDDISH YELLOW/ REDDISH YELLOW （S）
NEW ADVAN-E MAGENTA / BLACK（RRD）
NEW ADVAN 低温环保热固 YELLOW/MAGENTA/CYAN/BLACK/红相黄
NEW ADVAN HD YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN HD (H) YELLOW/MAGENTA/CYAN/BLACK
NEW ADVAN E MAGENTA/BLACK S

检测结果汇总 Summary of Test Results

1. RoHS

1.1 检测方法 Test Method

检测项目 Test Item	测试方法 Test Method
镉 Cadmium (Cd)，铅 Lead (Pb)	IEC 62321-5:2013
汞 Mercury (Hg)	IEC 62321-4:2013+A1:2017
六价铬 Hexavalent Chromium (Cr^{6+})	IEC 62321-7-2:2017
PBBs, PBDEs	IEC 62321-6:2015
DEHP, BBP, DBP, DIBP	IEC 62321-8:2017

1.2 检测设备 Test Instrument

设备名称 Instrument Name	厂 家 Manufacturer	型 号 Model
ICP-OES	Agilent	5800
UV-Vis	SHIMADZU	UV-1800
GC-MS	Agilent	7890B-5977A
GC-MS	SHIMADZU	QP2010 Ultra

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检测报告

1.3 检测结果 Test Results：限值依照欧盟指令 2011/65/EU (RoHS)及其修订指令/Limit according to Directive 2011/65/EU (RoHS) and its Amendments

检测项目 Test Item	结果 Result (mg/kg)	MDL (mg/kg)	限值 Limit (mg/kg)
	1		
铅 Lead (Pb)	N.D.	2	1000
镉 Cadmium (Cd)	N.D.	2	100
汞 Mercury (Hg)	N.D.	2	1000
六价铬 Hexavalent Chromium (Cr^{6+})	N.D.	8	1000

检测项目 Test Item	结果 Result (mg/kg)	MDL (mg/kg)	限值 Limit (mg/kg)
	1		
多溴联苯 (1 – 10) (PBBs) Polybrominated Biphenyls (Mono – Deca) (PBBs)	N.D.	--	1000
单溴联苯 Monobromobiphenyl	N.D.	5	--
二溴联苯 Dibromobiphenyl	N.D.	5	--
三溴联苯 Tribromobiphenyl	N.D.	5	--
四溴联苯 Tetrabromobiphenyl	N.D.	5	--
五溴联苯 Pentabromobiphenyl	N.D.	5	--
六溴联苯 Hexabromobiphenyl	N.D.	5	--
七溴联苯 Heptabromobiphenyl	N.D.	5	--
八溴联苯 Octabromobiphenyl	N.D.	5	--
九溴联苯 Nonabromobiphenyl	N.D.	5	--
十溴联苯 Decabromobiphenyl	N.D.	5	--
多溴二苯醚 (1 – 10) (PBDEs) Polybrominated Diphenylethers (Mono – Deca) (PBDEs)	N.D.	--	1000
单溴二苯醚 Monobromodiphenyl ether	N.D.	5	--
二溴二苯醚 Dibromodiphenyl ether	N.D.	5	--
三溴二苯醚 Tribromodiphenyl ether	N.D.	5	--

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检测报告

检测项目 Test Item	结果 Result (mg/kg)	MDL (mg/kg)	限值 Limit (mg/kg)
	1		
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5	--
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5	--
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5	--
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5	--
八溴二苯醚 Octabromodiphenyl ether	N.D.	5	--
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5	--
十溴二苯醚 Decabromodiphenyl ether	N.D.	5	--

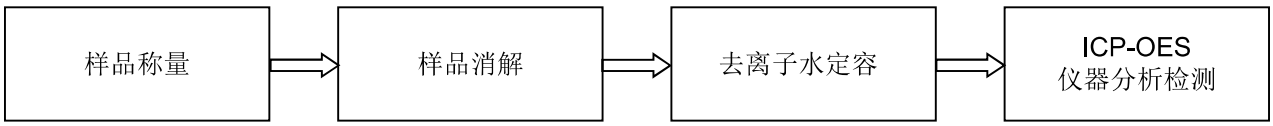
检测项目 Test Item	CAS No.	结果 Result (mg/kg)	MDL (mg/kg)	限值 Limit (mg/kg)
		1		
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	N.D.	50	1000
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	N.D.	50	1000
邻苯二甲酸丁苄酯 Butyl benzyl phthalate (BBP)	85-68-7	N.D.	50	1000
邻苯二甲酸二（2-乙基）己酯 Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	50	1000

备注 Note

1) N.D. = 未检测到 (小于 MDL)。 /Not Detected (Less than Detection Limit).
2) MDL = 方法检出限。/Method Detection Limit.
3) 对于检测铅、镉、汞的样品已完全溶解。/Specimens, which requested to determine Lead, Cadmium and Mercury content, have been dissolved completely.

1.4 检测流程图 Test Flowchart

Pb, Cd, Hg 测试流程/Pb, Cd, Hg Test Process:



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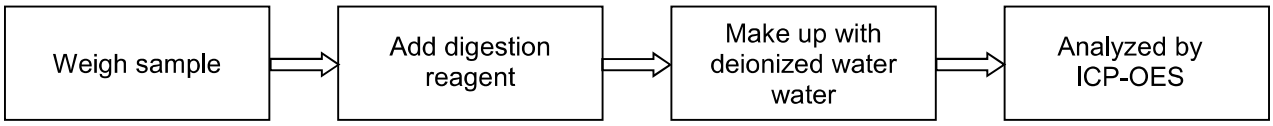
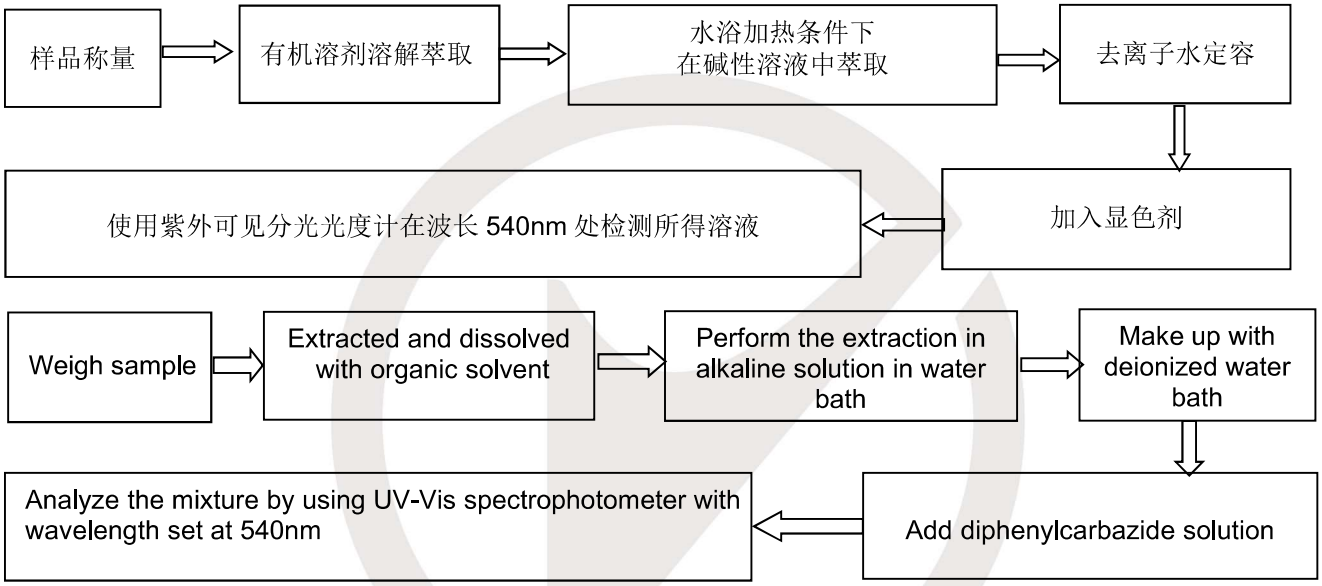
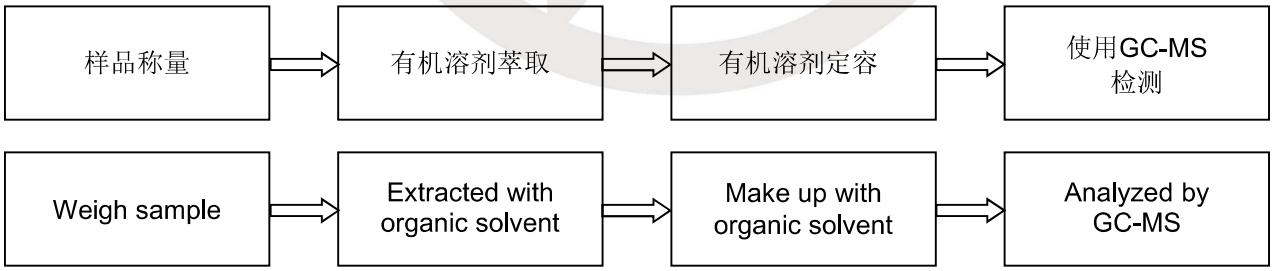
检测报告



Cr^{6+}测试流程/Cr^{6+} Test Process:



PBBs &PBDEs, DEHP, BBP, DBP, DIBP 测试流程/PBBs &PBDEs, DEHP, BBP, DBP, DIBP Test Process:



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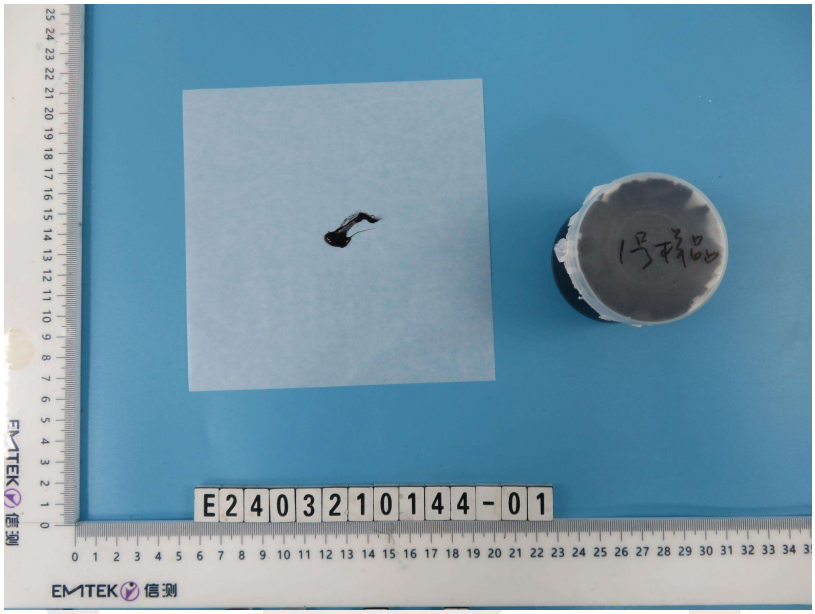
检测报告

样品照片 Sample Photo



*** 报 告 结 束 ***
*** End of Report ***

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检测报告

声明 Statement

1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和 资料的真实性负责，本实验室不承担任何相关责任。
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The underlined test item in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching ,teaching or internal quality control.

6.其它声明请查阅报告页脚及书面报告背页。
For other statements, please refer to the footer of the report.

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EMTEK
Access to the World

签发测试报告条款
Conditions of Issuance of Test Reports

1. 苏州市信测标准技术服务有限公司（以下简称[本公司]）为提供符合下述条款的测试和报告，而接受有关样品和货品。本公司基于下述条款提供服务，下述条款为本公司与申请服务的个人，企业或公司（以下简称[客户]）的协议。
All samples and goods are accepted by the EMTEK(Suzhou) Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the “Clients”).

2. 由此测试申请所发出的任何报告（以下简称[报告]），本公司会严格为客户保密。未经本公司的书面同意，报告的整体或部分不得复制，也不得用于广告或授权的其他用途。然而，客户可以将本公司印制的报告或认可的副本，向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求，否则未经客户同意，本公司不得将报告内容向任何第三方讨论或披露。
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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋需，也并无义务到法院对有关报告作证。
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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