

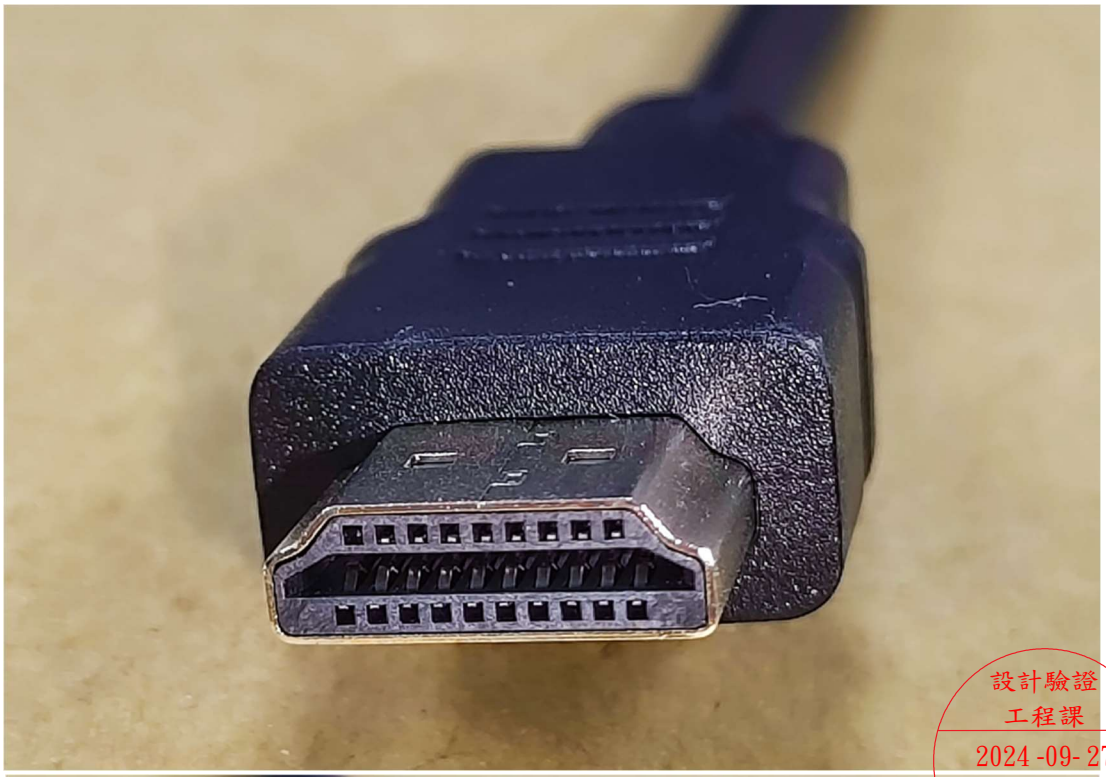


設計驗證
工程課
2024-09-27
發行
[illegible]科技開發股份有限公司











設計驗證
工程課
2024-09-27
發行

程悅有限公司
CHENNYUE CO., LTD.

規格承認書
SPECIFIATION FOR APPROVAL

客戶 CUSTOMER	鈺緯科技開發股份有限公司
客戶料號 CUSTOMER P/N	3KC00010020 (K1182)
描述 DESCRIPTION	HDMI 19P A/M to DVI-(24+5)F Cable L=500mm
料號 PART NO.	206.LS10
日期 DATE	2024.9.24
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 2024-9-24 CHENNYUE CO., LTD.	設計驗證 工程課 2024 -09- 27 發行 鈺緯科技開發股份有限公司

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

206.LS10

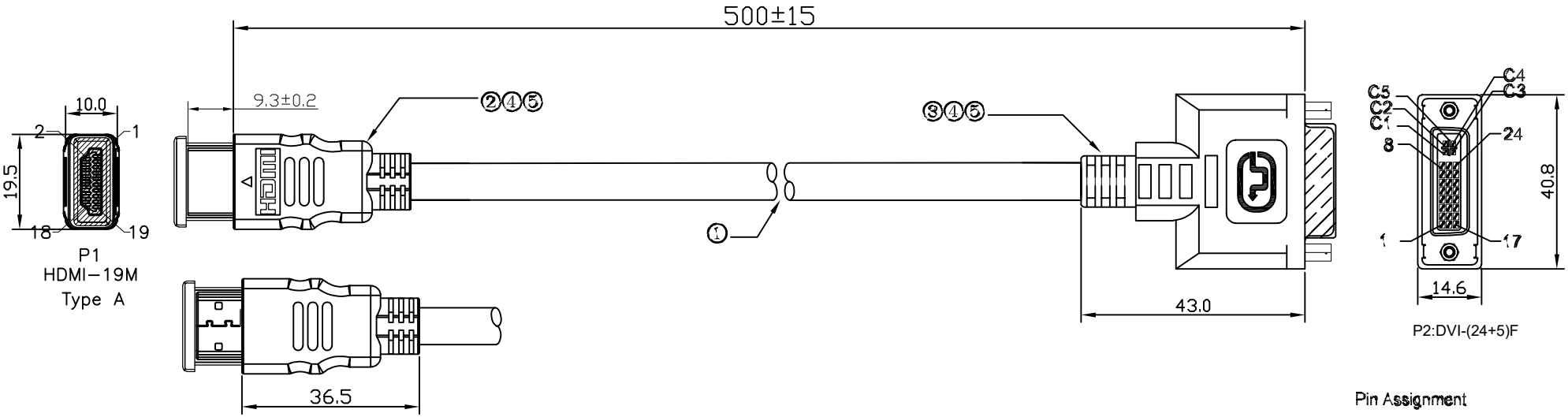
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5		线材 SGS	7~87
6		连接器（HDMI-19P 公头& DVI-24+5 母头）SGS	88~157
7		PE 胶料 SGS	158~162
8		PVC 胶料 SGS	163~170

RoHS Compliant

Customer P/N

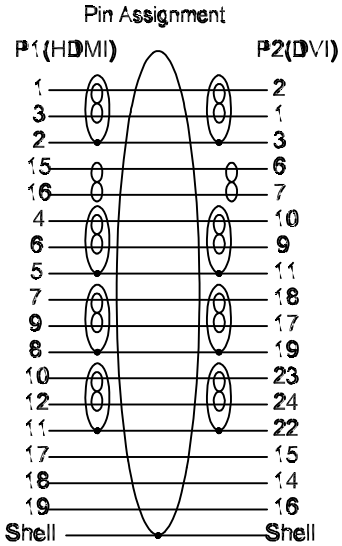
Rev	Revision note	Date
A	Initial Released.	2024/07/31



Note:

1.RoHS Compliant Certified
2.Electronic Test Condition:
2.1 100% Test (open,short,mis-wire).
2.2 Conductive resistance: 5 ohms Max.
2.3 Insulation resistance: 5M ohm min
2.4 Insulation Voltage: 300V DC,10ms
3. 支持1920*1080P 60HZ 视频传输

Pin Assignment



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3KC00010020(K1182)

No.	DESCRIPTION & MATERIAL	Q'ty	Unit
6	HDMI防尘盖	1	pcs
5	PVC 45P 黑色		g
4	LD-PE料		g
3	DVI-(24+5) 母头 前铆柱子 端子镀金 铁壳镀镍 黑色胶芯	1	pcs
2	HDMI-19P 公头 端子镀金 铁壳镀镍 黑色胶芯	1	pcs
1	(30AWG*1P+DW+AL)*4C+30AWG*1P+30AWG*3C+AL/MY+DW+B(AM)黑色PVC外被 OD6.0mm	A/R	mm

APPOVALS		DATE
DRAWN	Hao	2024-07-24
CHECKED	Ben	2024-07-24
APPROVED		

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TITLE: HDMI 19P A/M to DVI-(24+5)F Cable L=500mm

DWG No.: 206.LS10.HDMI-DVI24+5.500mm Rev: A

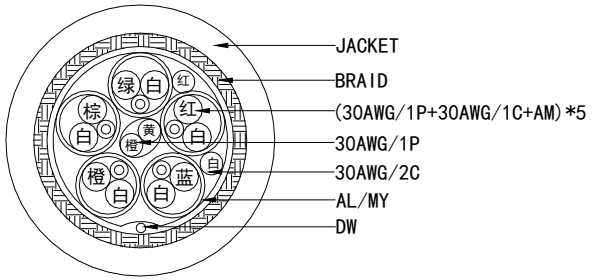
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SPECIFCATION	UL20276 (30AWG/1P+30AWG/1C+AM)*5+30AWG/1P+30AWG/2C+AL/MY+DW+BRAID+JACKET

ITEM		SPECIFCATION		
CONDUCTOR (导体)	AWG（安规）	(30AWG/1P+30AWG/1C+AM)*5	30AWG/1P	30AWG/2C
	MATERIAL（材质）	BARE COPPER(裸铜)	BARE COPPER(裸铜)	BARE COPPER(裸铜)
	COND.SIZE（导体规格）	1/0.254±0.008mm	1/0.254±0.008mm	1/0.254±0.008mm
INSULATION (绝缘)	AVG.THICK（平均厚度）	0.22mm	0.14mm	0.14mm
	MATERIAL（材质）	FM-Skin	HD-PE	HD-PE
	OD（外径）	0.70±0.05mm	0.55±0.05mm	0.55±0.05mm
DW(地线导体) CONDUCTOR	MATERIAL（材质）	BARE COPPER(裸铜)	/	/
	COND.SIZE（导体规格）	1/0.254±0.008mm	/	/
DW(地线绝缘) INSULATION	MATERIAL（材质）	HD-PE	/	/
	OD（外径）	0.55±0.05mm	/	/
SHIELD 1 (屏蔽)	MATERIAL（材质）	AL/MY(Face Inside)(铝箔 导电面朝内)	/	/
	COVERAGE（遮蔽率）	100%	/	/
	OVERLAP（重叠率）	25%	/	/
SHIELD 2 (屏蔽)	MATERIAL（材质）	MYLAR(麦拉)	/	/
	COVERAGE（遮蔽率）	100%	/	/
	OVERLAP（重叠率）	25%	/	/
SHIELD 3 (屏蔽)	MATERIAL（材质）	AL/MY(Face Outside)(铝箔 导电面朝外)		
	COVERAGE（遮蔽率）	100%		
	OVERLAP（重叠率）	25%		
DRAIN (地线)	MATERIAL（材质）	BARE COPPER(裸铜)		
	COND.SIZE（导体规格）	1/0.254±0.008mm		
BRAID (编织)	MATERIAL（材质）	MAGNALIUM (镁铝合金丝)		
	COND.SIZE（导体规格）	16/6/0.12±0.008mm		
	COVERAGE（遮蔽率）	70%		
JACKET (外被)	AVG.THICK（平均厚度）	0.60mm		
	MATERIAL（材质）	80℃ 62P/PVC		
	COLOR（颜色）	BLACK/HLAF MATT(半雾面)		
	OD（外径）	6.00±0.15mm		

CROSS SECTION



COLOR CODE(芯线颜色)

30AWG/5P: (1.棕-白 2.绿-白 3.红-白 4.蓝-白 5.橙-白)
1.BROWN-WHITE 2.GREEN-WHITE
3.RED-WHITE 4.BLUE-WHITE
5.ORANGE-WHITE
DW INSULATION (地线绝缘):NATURAL(本色)
30AWG/1P:(橙-黄)
1.ORANGE-YELLOW
30AWG/2C:(1.白 2.红)
1.WHITE 2.RED

MARKING(印字内容)

High Speed HDMI™ Cable with Ethernet E238846 AWM STYLE 20276 80℃ 30V VW-1

PRINTING COLOR(印字颜色)	WHITE/白

ELECTRICAL CHARACTERISTICS

1.Rating: TEMP（额定温度) 80℃ Rating voltage(额定电压）:30volts
2.Conductor Resistance（测试温度）: at 20℃ MAX
导体电阻:30AWG:376.96Ω/KM

PHYSICAL PROPERTIES

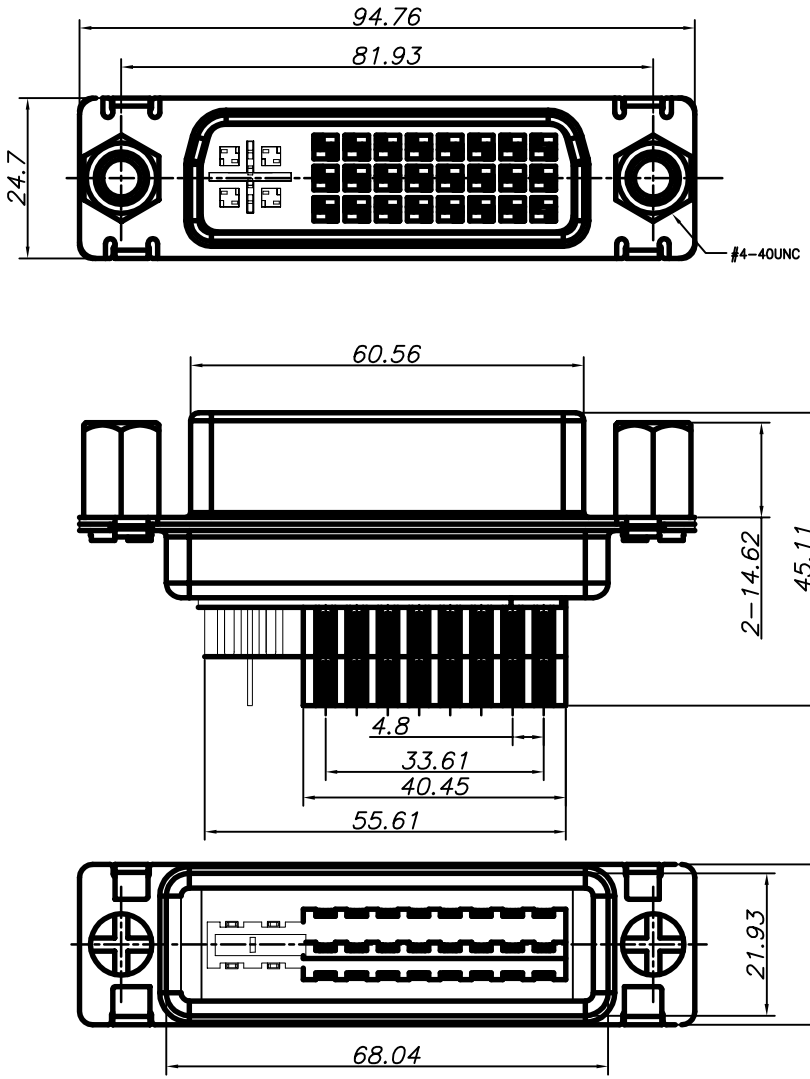
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APPROVED		CUSTOMER	
CHECKED		REV	171127005
DRAWING	Liulei	DATE	27-Nov-17

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Customer P/N

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A	Initial Released.	2024/07/31



备注:

1.材质:

1-1. 塑胶:PBT+30%G/F,UL 94V-0,
颜色:详见TABLE

1-2. 端子: 材质: C2680
镍底50u"~100u".接触区镀金1U.
焊接区镀雾锡80u"~120u".

1.3. 外壳：SPCC T=0.40前金后镍

2.电气特性:

2-1. 电压&额定电流: DC 500V MAX.3A
2-2. 接触阻抗: 20mΩ MAX.
2-3. 绝缘阻抗: 1000MΩ MIN.
2-4. 耐电压: 500V AC FOR 1 MINUTE.
2-5. 操作温度: -55℃~+105℃
3.盐雾：24H

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APPOVALS		DATE
DRAWN	Hao	2024-07-24
CHECKED	Ben	2024-07-24
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TITLE: DVI 24+5母焊线式窄边前铆螺母

DWG No.:

Rev: A

Scale: Free

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dimensions are in millimeters.

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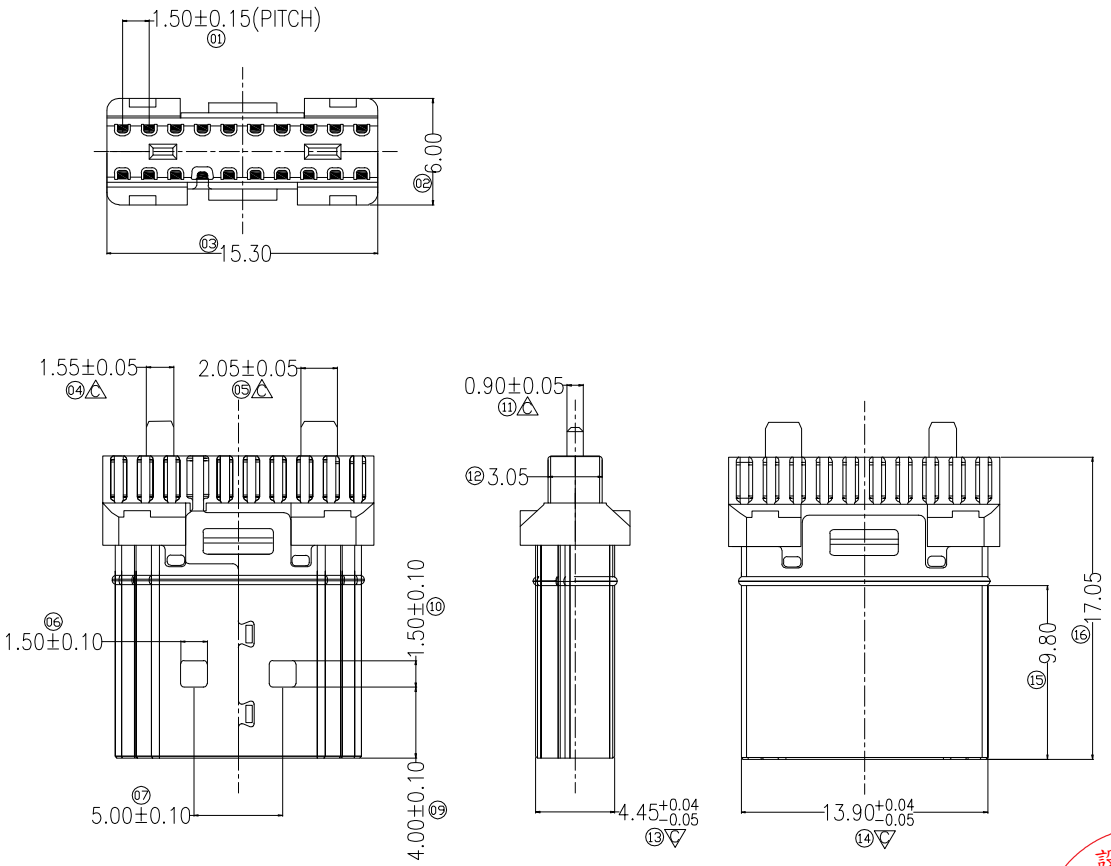
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NOTES:

1.MATERIAL:
- 1-1. HOUSING: LCP ,COLOR:BACK ,UL94-V0.
- 1-2. INSERTMOLDING: LCP, COLOR:BACK,UL94-V0.
- 1-3. CONTACT: C5191(T=0.20mm) ;
  GOLD FLASH ON CONTACT AREA,
  100u" Min. Tin PLATED ON SOLDER TAILS.
  50u" Min. NICKEL PLATED OVERALL.
- 1-4. SHELL:SPCC,(T=0.30mm) ;
  100u" Min. NICKEL PLATED OVERALL.
  120u" Min. COPPER BOTTOM PLATED OVERALL.

2.ELECTRICAL CHARACTERISTICS:
- 2-1. CURRENT RATING: 0.5A
- 2-2. CONTACT RESISTANCE: 30mΩ MAX.
- 2-3. INSULATION RESISTANCE: 100MΩ MIN.
- 2-4. DIELECTRIC WITHSTAND VOLTAGE: AC 500V/MINUTE.
- 2-5. OPERATING TEMPERATURE RANGE: -25°C~+85°C

3.MECHANICAL CHARACTERISTICS:
- 3-1. INSERTION FORCE: 4.5Kgf MAX.
- 3-2. EXTRACTION FORCE: 1.0Kgf MIN.,4.0Kgf MAX.

4.DURABILITY: 10000 CYCLES.

5.SALT FOG TEST:24H.

6."ⓧ" SHOWS FAI MEASURMENT POINT.

7. MARKED"▽"AS KEY CONTROL SIZE.

TABLE

料号对照表		
产品系列	品名规格	产品料号
B4款双柱	HDMI AM 20PIN B4款自动焊 铁壳镀镍 黑胶芯 端子镀金G/F	CH-N034

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APPOVALS		DATE
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TITLE: HDMI AM 20PIN B4款 自动焊

DWG No.:

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DONGGUAN CITY YOU-COLOR NEW MATERIALS CO.,LTD FOSHAN XINYOUCAI ENVIRONMENTAL PROTECTION NEW MATERIALS CO.,LTD
BUILDING E,THE SINPOL LNDUSTRIAL ZONE,BIHU ROAD,BIHU LNDUSTRIAL AREA,FENGGANG TOWN,DONGGUAN CITY,GUANGDONG PROVINCE,CHINA. BUILDING A,YUNKONG TECHNOLOGY SMART HOME INDUSTRY PARK,NO.6 LIANYONG SECOND ROAD,CHONGHE VILLAGE,LELIU STREET,SHUNDE DISTRICT,FOSHAN CITY

The following samples were submitted and identified by/on behalf of the client as:

PLASTIC PIGMENTS（MASTER BATCH）

Item No. : YELLOW ,RED ,VIOLET ,WHITE ,GREEN ,GRAY ,GOLD ,ORANGE ,SILVER ,BLUE ,BROWN ,BLACK, PURPLE, PINK, DARK GREEN ,PUCE

****

Status of Received Sample : No Obvious Abnormal Condition
Sample Receiving Date : MAY 22, 2024
Testing Period : MAY 22, 2024 TO JUN 04, 2024

Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	ISO 8124-3:2020/Amd.1:2023 – Safety of toys – Part 3 – Migration of Certain Elements	PASS
2.	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements	PASS
3.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content	PASS
4.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS
5.	European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances	--
	Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content analysis by wet chemical	PASS
	Phthalate Content	PASS
6.	Client's Requirement – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS

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Test Requested		Conclusion
7.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
8.	US 16 CFR Part 1307 – Phthalates	PASS
9.	US California Proposition 65 – Lead Content	PASS
10.	US California Proposition 65 – Phthalates Content	PASS
11.	China National Safety Technical Code GB 6675.1-2014 Safety of toys-Part 1: Clause 5.3.3 & 5.3.4 Migration of certain elements	PASS
	China National Safety Technical Code GB 6675.4-2014 Safety of toys-Part 4: Migration of certain elements	PASS
12.	Phthalates Content	SEE RESULT
13.	Halogen	SEE RESULT

******** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ********

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

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Sun Yaqing, Sunny
Supervisor

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Results:

ISO 8124-3:2020/Amd.1:2023 – Safety of toys – Part 3 – Migration of Certain Elements

Method: With reference to ISO 8124-3:2020/Amd.1:2023
Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)				5	5	2.5	10	5	5	5	10
Permissible Limit (mg/kg) – Other than Modelling clay and putty, Finger paint, and Slime				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)							
1	12	1	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Multi-color plastic

Note:
- mg/kg = milligram per kilogram
- mg = milligram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceed Permissible Limit

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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)			Result(s)	MDL	Permissible Limit
Specimen No.			1	--	--
Mass of trace amount		(mg)	/	--	--
Soluble Aluminium	(Al)	(mg/kg)	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	5	17
Soluble Chromium^{+}	(Cr)	(mg/kg)	ND	1	--
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	3.0	180000
Soluble Organic Tin	--	(mg/kg)	ND	--	12
Soluble Zinc	(Zn)	(mg/kg)	ND	50	46000

Specimen Description:

1. Multi-color plastic

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Note:
- mg/kg = milligram per kilogram
- mg = milligram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- [+] Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- * = Exceeds Permissible Limit

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European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content

Method: With reference to CPSC-CH-C1001-09.4
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
Alias No.	--	5		
Tracing No.	--	1		
Specimen No.	--	**1**		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	--	0.1

Specimen Description:

1. Multi-color plastic

Note:
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- % = percentage by weight

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- $^{\Delta}$ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible Limit

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European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content

Method: With reference to AfPS GS 2019:01 PAK method.
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Toy or childcare product

Test Item(s)	CAS No.	Result(s) (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
Specimen No.	--	1		
Alias No.	--	8		
Tracing No.	--	1		
1. Benzo[a]anthracene	56-55-3	ND	0.1	0.5
2. Chrysene	218-01-9	ND	0.1	0.5
3. Benzo[b]fluoranthene	205-99-2	ND	0.1	0.5
4. Benzo[k]fluoranthene	207-08-9	ND	0.1	0.5
5. Benzo[j]fluoranthene	205-82-3	ND	0.1	0.5
6. Benzo[a]pyrene	50-32-8	ND	0.1	0.5
7. Benzo[e]pyrene	192-97-2	ND	0.1	0.5
8. Dibenzo[a,h]anthracene	53-70-3	ND	0.1	0.5

Specimen Description:

1. Multi-color plastic

Note:
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- mg/kg = milligram per kilogram

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- $^{\Delta}$ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds limit

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EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical

Method: With reference to IEC62321-5:2013 / IEC 62321-4:2013+AMD1:2017 / IEC 62321-7-2:2017 / IEC62321-7-1:2015 / IEC62321-6:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS) / Ultraviolet Visible Spectrophotometer (UV-Vis) / Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Unit	Result	MDL	Permissible Limit
		1		
Lead (Pb)	mg/kg	ND	2	1000
Cadmium (Cd)	mg/kg	ND	2	100
Mercury (Hg)	mg/kg	ND	2	1000
Comment		PASS	--	--

Specimen Description:

1. Multi-color plastic

Test Item(s)	Unit	Result	MDL	Permissible Limit
		1		
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	ND	8	1000
Comment		PASS	--	--

Specimen Description:

1. Multi-color plastic

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Test Item(s)	Unit	Result	MDL	Permissible Limit
		1		
Sum of PBBs	mg/kg	ND	--	1000
Monobromobiphenyl	mg/kg	ND	5	--
Dibromobiphenyl	mg/kg	ND	5	--
Tribromobiphenyl	mg/kg	ND	5	--
Tetrabromobiphenyl	mg/kg	ND	5	--
Pentabromobiphenyl	mg/kg	ND	5	--
Hexabromobiphenyl	mg/kg	ND	5	--
Heptabromobiphenyl	mg/kg	ND	5	--
Octabromobiphenyl	mg/kg	ND	5	--
Nonabromobiphenyl	mg/kg	ND	5	--
Decabromobiphenyl	mg/kg	ND	5	--
Sum of PBDEs	mg/kg	ND	--	1000
Monobromodiphenyl ether	mg/kg	ND	5	--
Dibromodiphenyl ether	mg/kg	ND	5	--
Tribromodiphenyl ether	mg/kg	ND	5	--
Tetrabromodiphenyl ether	mg/kg	ND	5	--
Pentabromodiphenyl ether	mg/kg	ND	5	--
Hexabromodiphenyl ether	mg/kg	ND	5	--
Heptabromodiphenyl ether	mg/kg	ND	5	--
Octabromodiphenyl ether	mg/kg	ND	5	--
Nonabromodiphenyl ether	mg/kg	ND	5	--
Decabromodiphenyl ether	mg/kg	ND	5	--
Comment		PASS	--	--

Specimen Description:

1. Multi-color plastic

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Note:
- mg/kg = milligram per kilogram
- µg/cm^2 = microgram per square centimeter
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- -- = Not Conducted
- # The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm^2. The sample coating is considered to contain Cr(VI)

  The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm^2). The coating is considered a non-Cr(VI) based coating

  The result between 0.10 µg/cm^2 and 0.13 µg/cm^2 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(VI) results represent status of the sample at the time of testing.
- * Exceeds Permissible Limit

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EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content

Method: With reference to IEC 62321-8:2017
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Unit	Result(s)	MDL	Permissible Limit
Specimen No.	--	--	1		
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	ND	50	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	ND	50	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	ND	50	1000

Specimen Description:

1. Multi-color plastic

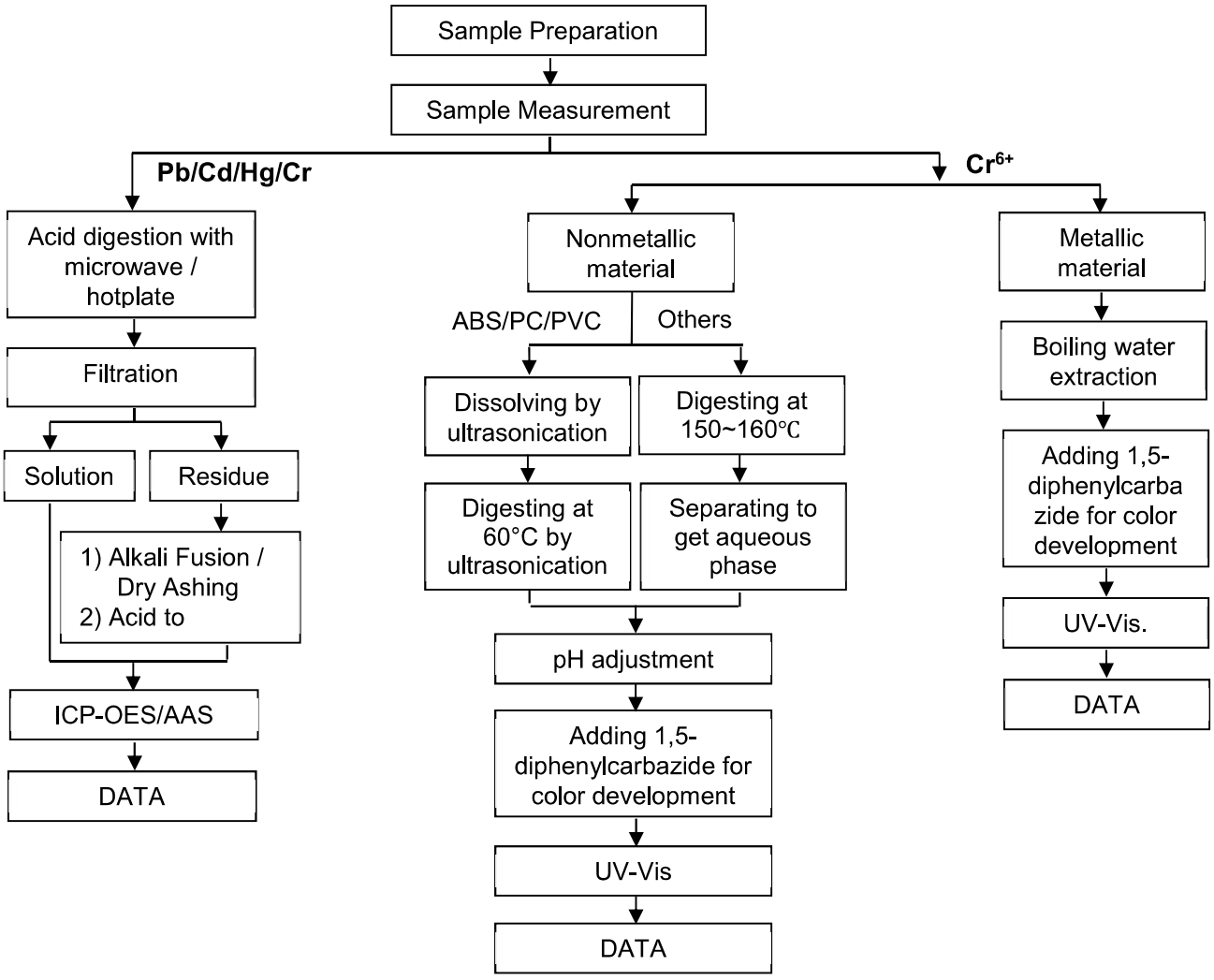
Note:
- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible Limit

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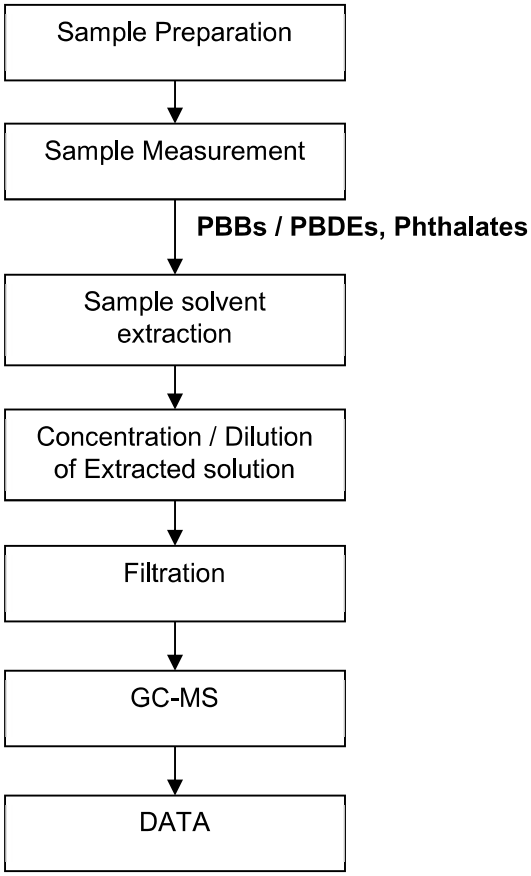
RoHS Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



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RoHS Testing Flow Chart



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Polycyclic Aromatic Hydrocarbon (PAHs) Content

Method: With reference to AfPS GS 2019:01 PAK method.
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Category 2: Materials not covered by Category 1, coming into long-term contact (More than30s) or short-term repetitive contact with skin during the intended or foreseeable use - For products used by children under 14

Test Item(s)	CAS No.	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	--	1		
Alias No.	--	7		
Tracing No.	--	1		
1. Naphthalene	91-20-3	ND	0.1	2
2. Acenaphthylene	208-96-8	ND	0.1	--
3. Acenaphthene	83-32-9	ND	0.1	--
4. Fluorene	86-73-7	ND	0.1	--
5. Phenanthrene	85-01-8	ND	0.1	--
6. Anthracene	120-12-7	ND	0.1	--
7. Fluoranthene	206-44-0	ND	0.1	--
8. Pyrene	129-00-0	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	0.1	0.2
10. Chrysene	218-01-9	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	0.1	0.2
Sum of 7 PAHs^	--	ND	--	5
Sum of 18 PAHs	--	ND	--	5

Specimen Description:

1. Multi-color plastic

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Note:
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- mg/kg = milligram per kilogram
- ^ 7 PAHs including Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene & Pyrene
- The material category was declared by the client and not assessed by SGS.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Client's limit

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CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)			**Lead (Pb)**
Permissible Limit (ppm)			100
Specimen Description	**Alias No.**	**Tracing No.**	**Result(s) (ppm)**
1. Multi-color plastic	1	1	ND

Note:
- ppm = parts per million
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit = 10 ppm
- 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- $^{\Delta}$ Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- * Exceeds Permissible Limit

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US 16 CFR Part 1307 – Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
Alias No.	--	4		
Tracing No.	--	1		
Specimen No.	--	**1**		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Di-n-pentlyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.003	0.1

Specimen Description:

1. Multi-color plastic

Note:
- % = percentage by weight
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- $^{\Delta}$ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible Limit

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US California Proposition 65 – Total Lead Content

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3
Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

Test Item(s)			Lead (Pb)
Specimen Description	**Alias No.**	**Tracing No.**	**Result(s) (ppm)**
1. Multi-color plastic	2	1	ND

Note:
- ppm = parts per million
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit =10 ppm
- 1% = 10000mg/kg=10000ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- * Exceed Permissible Limit

Remark: Summary of permissible limit(s) of Lead requirement otherwise warning label required.

Requirement(s)		Permissible Limit of Lead (ppm)
California Proposition 65 (ACSC Case No. RG-07-356892)	Surface Coating	90
	Accessible substrate	100

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California Prop 65 - Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (%)	MDL (%)
Specimen No.	--	**1**	
Alias No.	--	3	
Tracing No.	--	1	
Dibutyl phthalate (DBP)	84-74-2	ND	0.003
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003
Di-"isononyl" phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010
Di-"isodecyl" phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	0.003

Specimen Description:

1. Multi-color plastic

Note:
- % = percentage by weight
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- $^{\Delta}$ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- NA = Not Applicable
- * Exceed Permissible Limit

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Summary of Permissible Limit of Requirement(s) otherwise warning label required:

Requirement(s)	Permissible Limit
California Proposition 65 (ACSC Case No. BG07350969)	
- Toys for children under 6 or childcare articles for children under 3	≤ 0.1% for each of DBP, BBP, DEHP, DIDP, DnHP and DINP

GB 6675.1-2014 Clause 5.3.3 & 5.3.4 and GB6675.4-2014– Migration of certain elements in toys

Method: With reference to GB 6675.4-2014
Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)		Pb	Sb	As	Ba	Cd	Cr	Hg	Se	Conclusion
MDL (mg/kg)		5	5	2.5	10	5	5	5	10	
Permissible Limit (mg/kg) – Finger Paint		25	10	10	350	15	25	10	50	
Permissible Limit (mg/kg) – Modeling clay		90	60	25	250	50	25	25	500	
Permissible Limit (mg/kg) – Other than Modeling clay and Finger Paint		90	60	25	1000	75	60	60	500	
Specimen No.	Mass of trace amount (mg)	Adjusted Soluble Result(s) (mg/kg)								--
1	/	ND	ND	ND	ND	ND	ND	ND	ND	PASS

Specimen Description:

1. Multi-color plastic

Note:
- mg/kg = milligram per kilogram
- mg = milligram
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:
- * Exceed Permissible Limit

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Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4
Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (%)	MDL (%)
Specimen No.	--	1	
Alias No.	--	6	
Tracing No.	--	1	
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	0.003
Diethyl phthalate (DEP)	84-66-2	ND	0.003
Dinonyl phthalate (DNP)	84-76-4	ND	0.003
Di-n-pentlyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	0.003
Di-isooctyl phthalate (DIOP)	27554-26-3	ND	0.010
Dimethyl phthalate (DMP)	131-11-3	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	0.003
Dipropyl phthalate (DPRP)	131-16-8	ND	0.003
Diisononyl adipate (DINA)	33703-08-1	ND	0.010
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	0.003

Specimen Description:

1. Multi-color plastic

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Note:
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- % = percentage by weight

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- ^ = a mixture of i) Di-n-pentyl phthalate (DPP); ii) N-pentyl-isopentylphtalate (nPiPP) and iii) Diisopentyl phthalate (DiPP)
- $^{\Delta}$ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- * Exceeds Client's Limit

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Halogen

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

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX24-0016512-0001.C001	Multi-color plastic

Remarks:

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

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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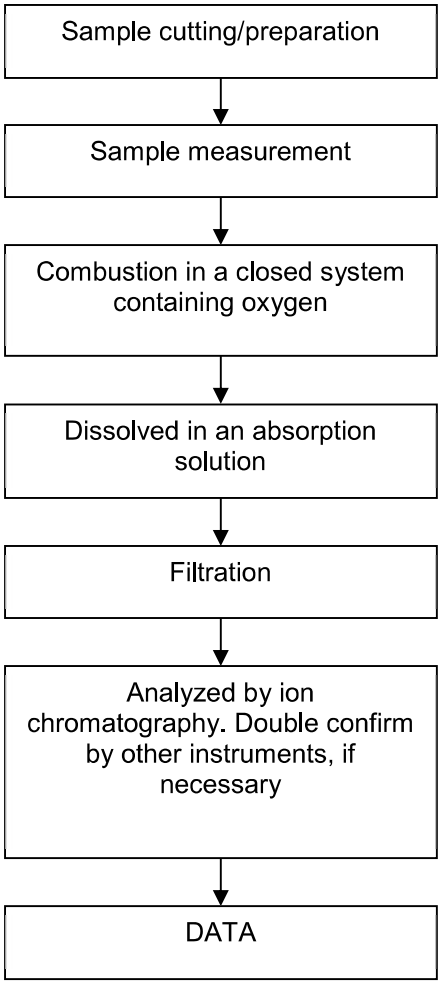
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Halogen Testing Flow Chart



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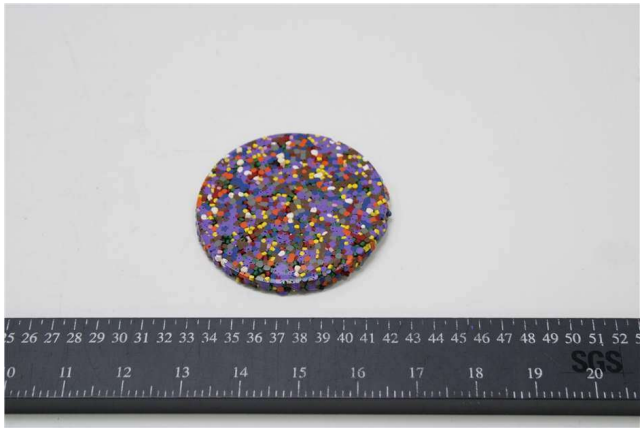
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1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), w = U_{95}. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.
   For Upper Tolerance Limit (T_U):
   Pass - when the measurement result is below T_U-U_{95}
   Fail - when the measurement result is above T_U+U_{95}
   Inconclusive - when the measurement result is falling in guard band［T_U-U_{95}, T_U+U_{95}］
   For Lower Tolerance Limit (T_L):
   Pass - when the measurement result is above T_L+U_{95}
   Fail - when the measurement result is below T_L-U_{95}
   Inconclusive - when the measurement result is falling in guard band［T_L-U_{95}, T_L+U_{95}］

Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No.: CANEC23013261405 **Date:** Nov 10, 2023

Client Name: SHIJIAZHUANG PATH CHEMISTRY CO., LTD

Client Address: ROOM 908, ASIA STEEL BUILDING, 3401 HUANGPU EAST ROAD, HUANGPU DISTRICT, GUANGZHOU

Sample Name: HDPE

Client Ref. Information: CSK-3364NT,5305E,9007, 8380,DGDN-3364

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

SGS Job No.: GZP23-018235

Sample Receiving Date: Nov 06, 2023

Testing Period: Nov 06, 2023 ~ Nov 10, 2023

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
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts	See Results
Halogen	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalates	See Results
Red Phosphorus	See Results

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

Jessie Li

Jessie-JX Li
Approved Signatory

scan to see the report

8104A997

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN23-0132614-0001.C002	White grains(a)+white grains(b)+white grains(c)

Remarks:

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

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), 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, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A2
Cadmium(Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybromobiphenyl (PBBs)	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)	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
Dibutyl Phthalate(DBP)	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	mg/kg	50	ND

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Test Item(s)	Unit(s)	MDL	A2
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	mg/kg	50	ND

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:

AfPS（German commission for Product Safety）: PAHs requirements

	Category 1	Category 2	Category 3
Parameter	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].	Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.

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	(more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

[a] A “Child” is legally defined as a person before reaching the age of 14 years.

[b] Use by children includes both active and passive contact by children.

[c] Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation

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(EC) No.1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:
The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
PFOS and its derivatives	-	mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) and its salts*	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
Perfluorooctanoic Acid (PFOA) and its salts*	335-67-1	mg/kg	0.010	ND

Notes:
(1) Perfluorooctanoic acid (PFOA) and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
(2) Perfluorooctane sulfonates (PFOS) and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH_4 (CAS No. 29081-56-9), PFOS-$N(C_{10}H_{21})_2(CH_3)_2$ (CAS No. 251099-16-8), PFOS-$NH_2(C_2H_4OH)_2$ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-$N(C_2H_5)_4$ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

Halogen

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

Test Item(s)	Unit(s)	MDL	A2
Fluorine(F)	mg/kg	20	ND

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Test Item(s)	Unit(s)	MDL	A2
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diphenyl Phthalate(DPhP)	84-62-8	mg/kg	50	ND
Dimethyl Phthalate(DMP)	131-11-3	mg/kg	50	ND
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	ND
Dipropyl Phthalate(DPrP)	131-16-8	mg/kg	50	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	mg/kg	50	ND
Dibenzyl Phthalate(DBzP)	523-31-9	mg/kg	50	ND
Dinonyl Phthalate(DNP)	84-76-4	mg/kg	50	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	mg/kg	50	ND
Di-(2-Ethylhexyl)Adipate(DEHA)	103-23-1	mg/kg	50	ND

Red Phosphorus

Test Method: SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Red Phosphorus	7723-14-0	mg/kg	500	ND

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Notes:

(1) * For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

Remark: 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 and only for reference.

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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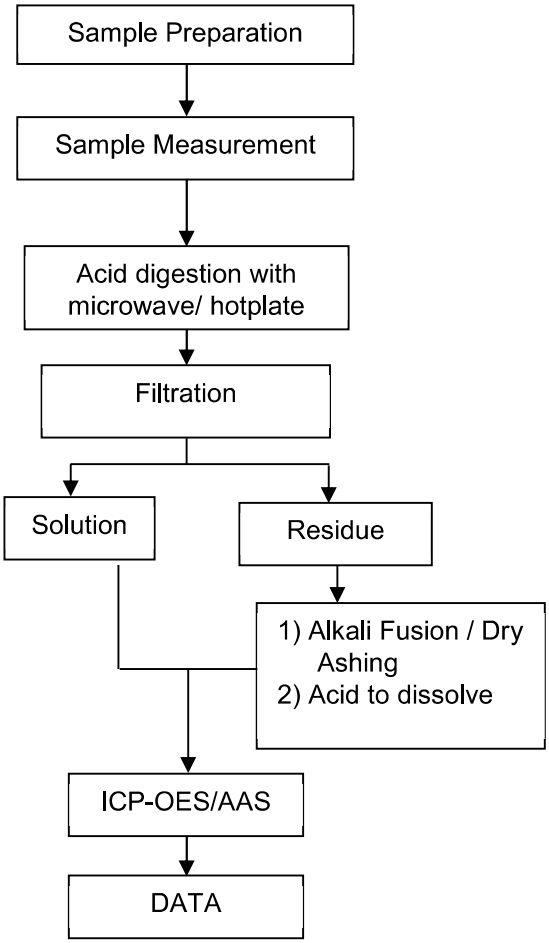
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Elements Testing Flow Chart

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

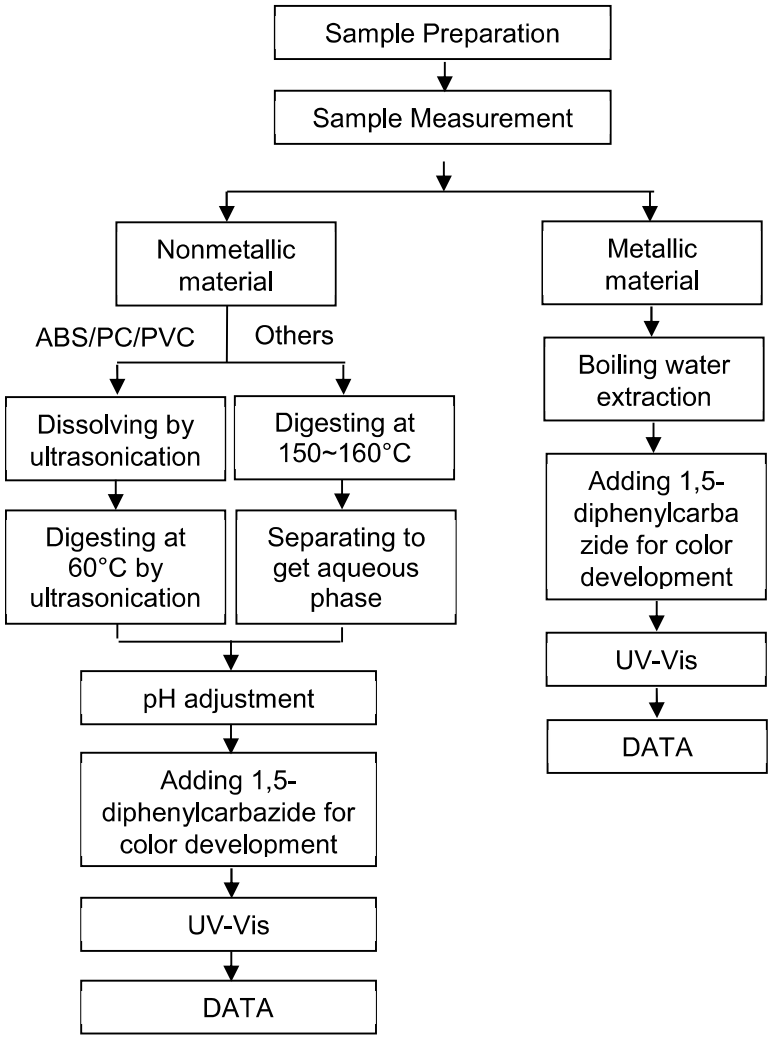


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



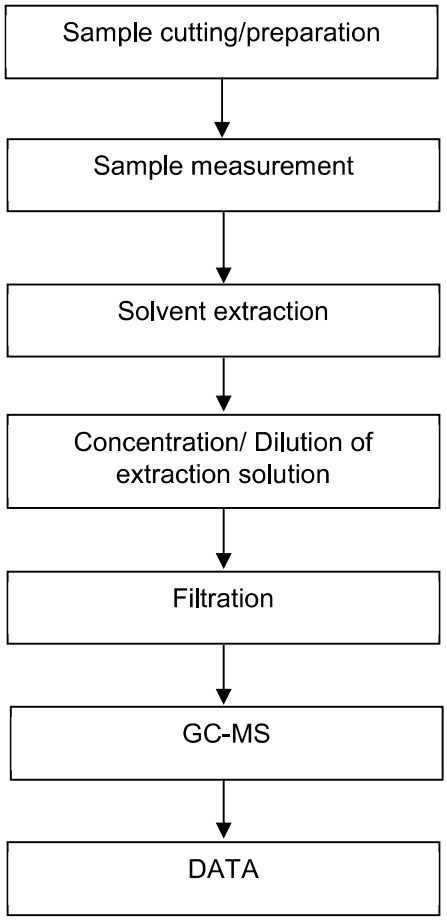
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PBBs/PBDEs Testing Flow Chart

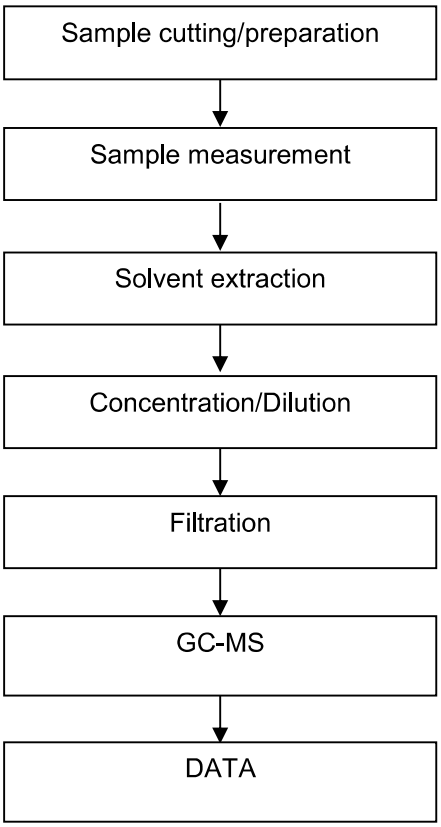


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Phthalates Testing Flow Chart

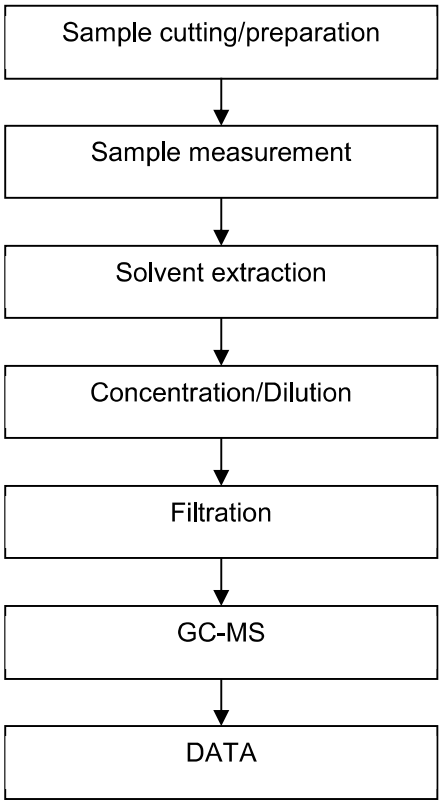


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PAHs Testing Flow Chart

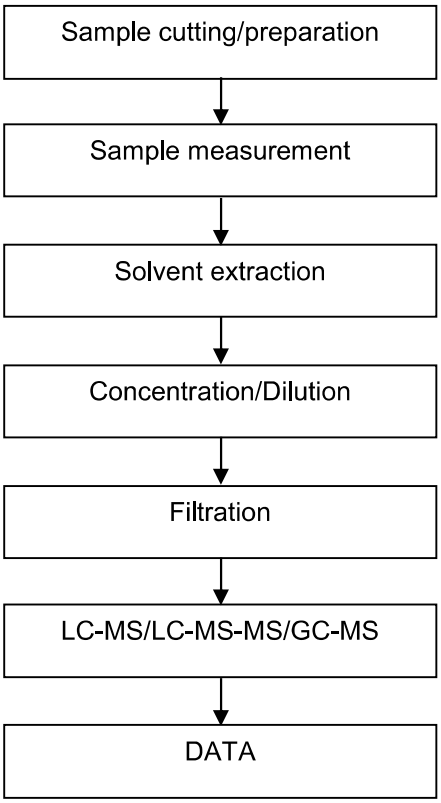


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PFASs/ PFOS/PFOA Testing Flow Chart

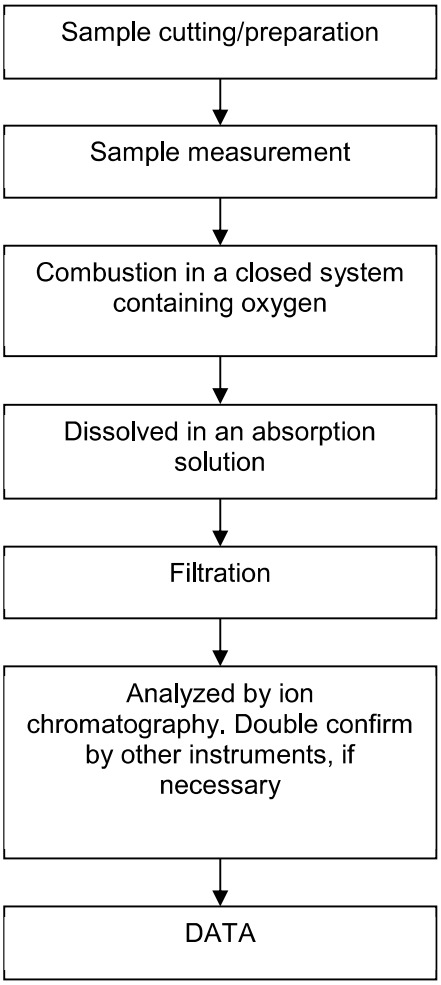


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Halogen Testing Flow Chart



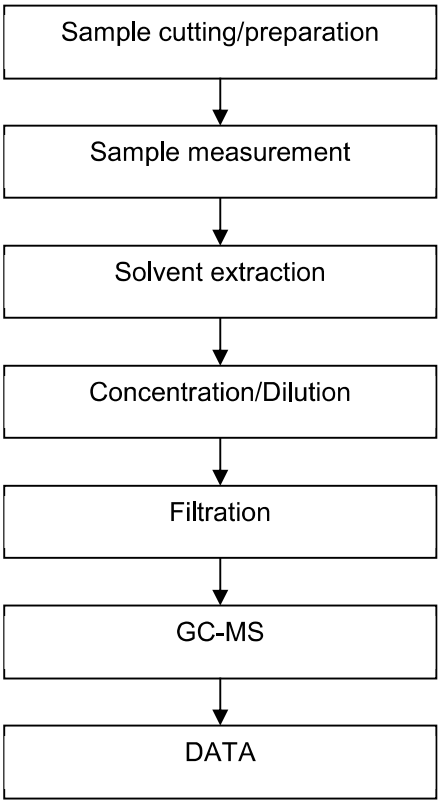
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HBCDD Testing Flow Chart



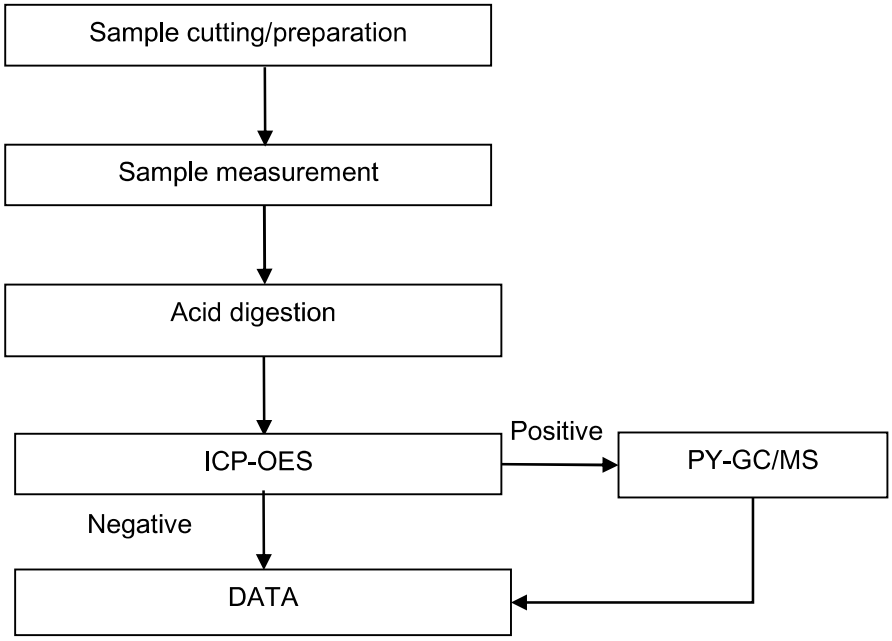
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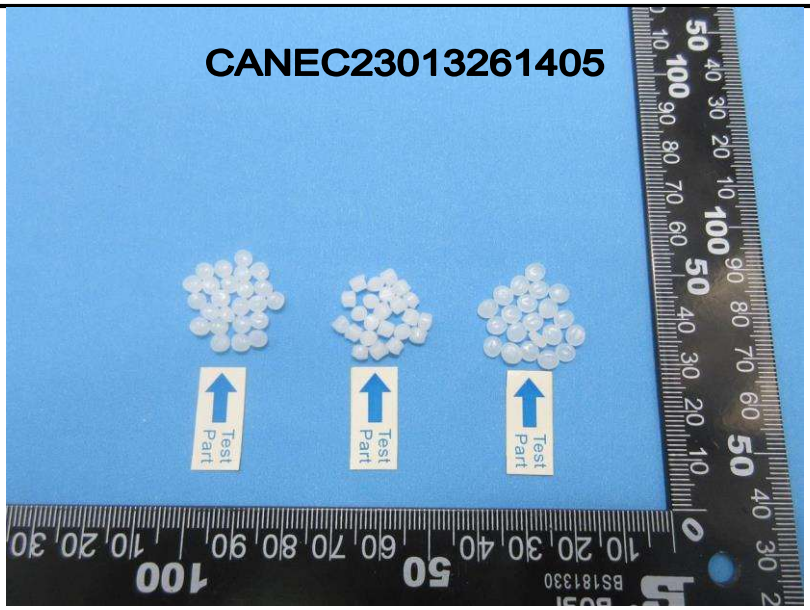
Red phosphorus Testing Flow Chart



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检测报告

编号：SZXEC23001914402　　**日期：**2023 年 08 月 21 日　　

客户名称：　东莞市冠宥实业有限公司
松千实业有限公司

客户地址：　东莞市虎门镇龙眼工业区 358 国道 79 号厂房一楼
台北市内湖区南京东路六段 260 号

样品名称：　铝镁合金线

以上样品及信息由客户提供。

SGS 工作编号：　SZP23-014289

样品接收时间：　2023 年 08 月 15 日

检测周期：　2023 年 08 月 15 日 ~ 2023 年 08 月 21 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(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)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
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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	SZX23-0019144-0001.C001	银灰色金属线

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检测限
(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(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)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， IEC 62321-6:2015 和 IEC 62321-8:2017， 采用 ICP-OES，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	5
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	A1
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	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(2-乙基己基)酯 (DEHP)	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测试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。
除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

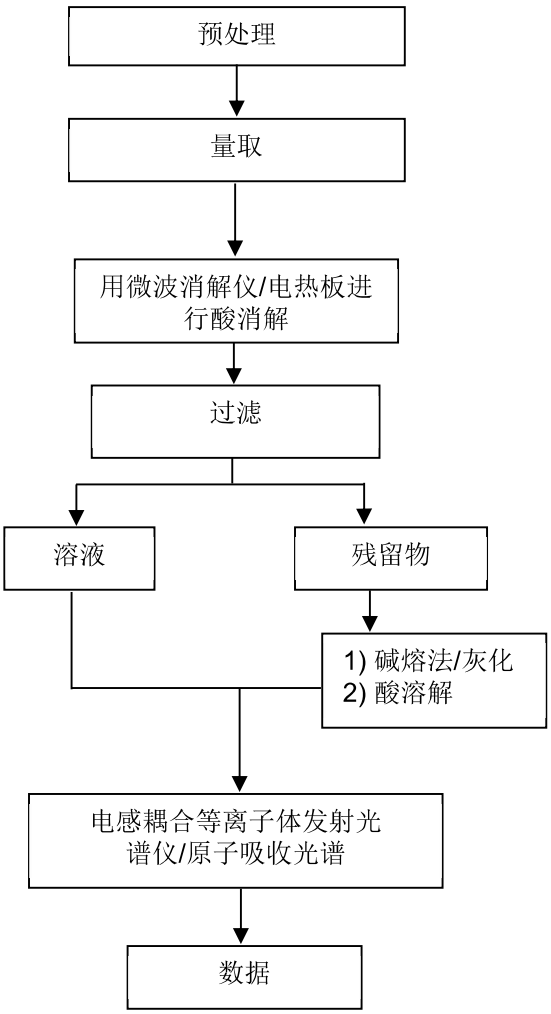
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元素检测流程图

样品按照下述流程被完全消解

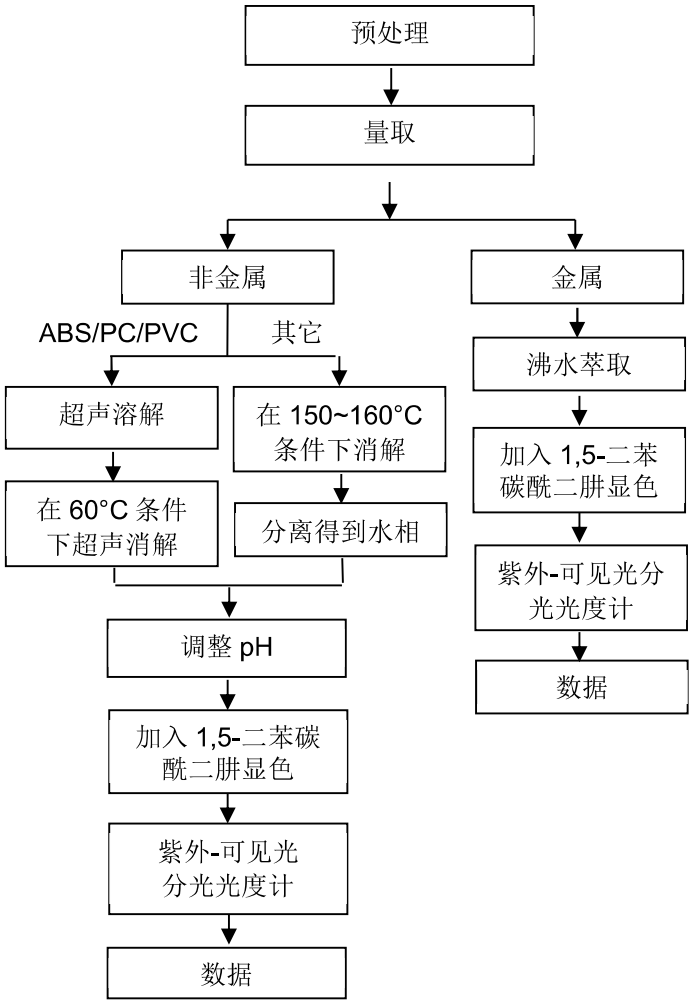


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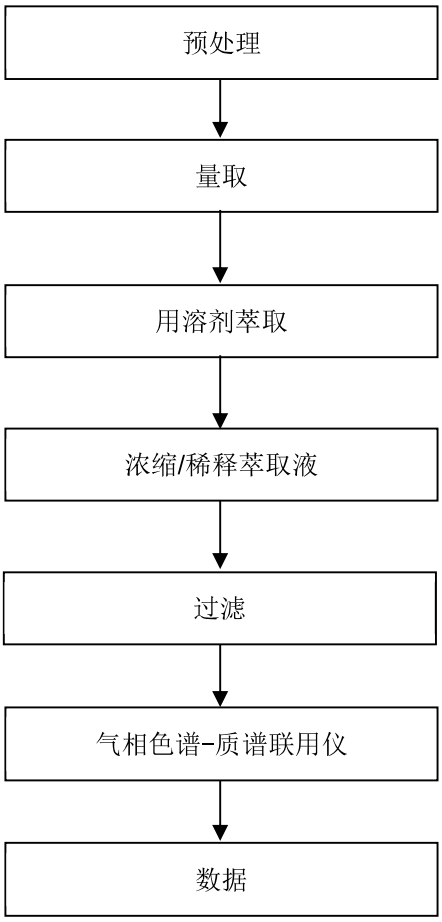
六价铬检测流程图



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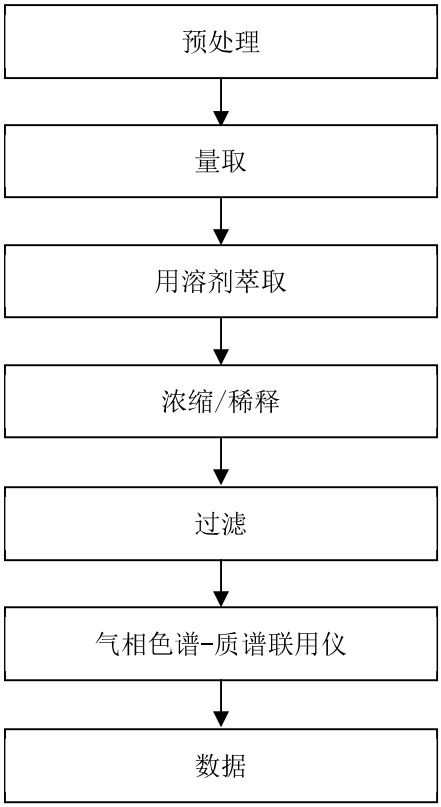
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Phthalates 检测流程图



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