

Test Report

No.: SHAEC25003481501

Date: Mar 07, 2025

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Client Name: SHANGHAI PEONY PRINTING INK CO.,LTD

Client Address: No.560 Xujiashui Road,Huangpu District,Shanghai, China

Sample Name: Offset printing ink products, Offset printing ink products

Client Ref. Information: See attachment

Manufacturer: Anhui Huayi Rixin Technology Co.,Ltd

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

SGS Job No.: SHP25-004554

Sample Receiving Date: Feb 24, 2025

Testing Period: Feb 24, 2025 ~ Mar 07, 2025

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
GB 6675.4-2014 - Migration of Certain Elements	See Results
COMMISSION IMPLEMENTING DECISION (EU) 2023/740 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)	See Results
Phthalates	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Sue Sheng

Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA25-0034815-0001.C001	Black mud
SN2	A2	SHA25-0034815-0001.C002	Black liquid

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 (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
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.

GB 6675.4-2014 - Migration of Certain Elements

Test Method: With reference to GB 6675.4-2014, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND

Notes:

- (1) Results shown are of the adjusted analytical results.

COMMISSION IMPLEMENTING DECISION (EU) 2023/740 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Soluble Lead(Pb)	23	mg/kg	5	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND



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Test Item(s)	Limit	Unit(s)	MDL	A2
Soluble Arsenic(As)	47	mg/kg	10	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND
Soluble Selenium(Se)	460	mg/kg	10	ND
Soluble Boron(B)	15000	mg/kg	50	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND
Methyl tin(MeT)	-	mg/kg	0.5	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	ND
Tributyl tin(TBT)	-	mg/kg	0.5	ND
n-Octyl tin(MOT)	-	mg/kg	0.5	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	ND
Butyl tin(BuT)	-	mg/kg	0.5	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	ND
Sum of Soluble Organic Tin	12	mg/kg	-	ND

Notes:

(1) According to the Commission Implementing Decision (EU) 2023/740 of April 5, 2023, published in the OJEU. The EN 71-3:2019+A1:2021 is adopted as the harmonized standard for toys drafted in support of Directive 2009/48/EC.

(2) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	84-74-2	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	%	0.003	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	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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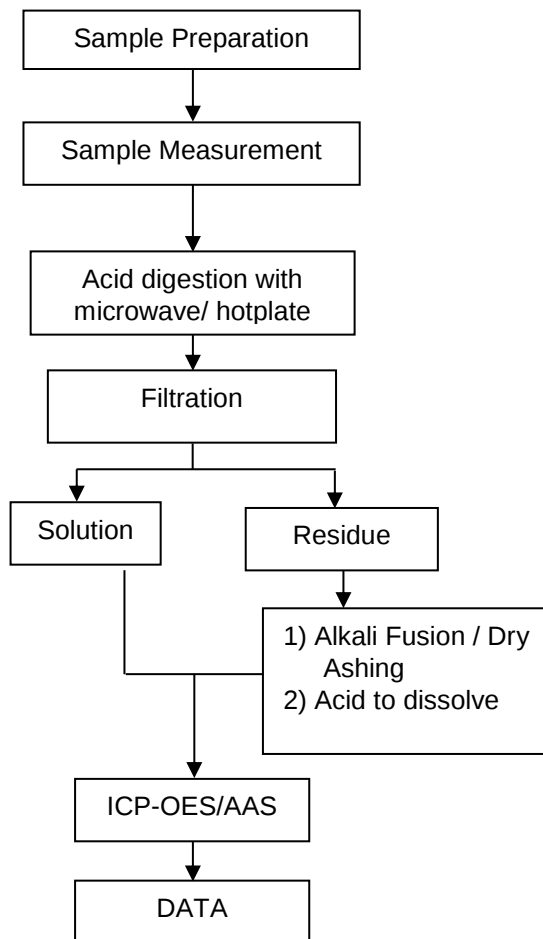
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Elements Testing Flow Chart

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



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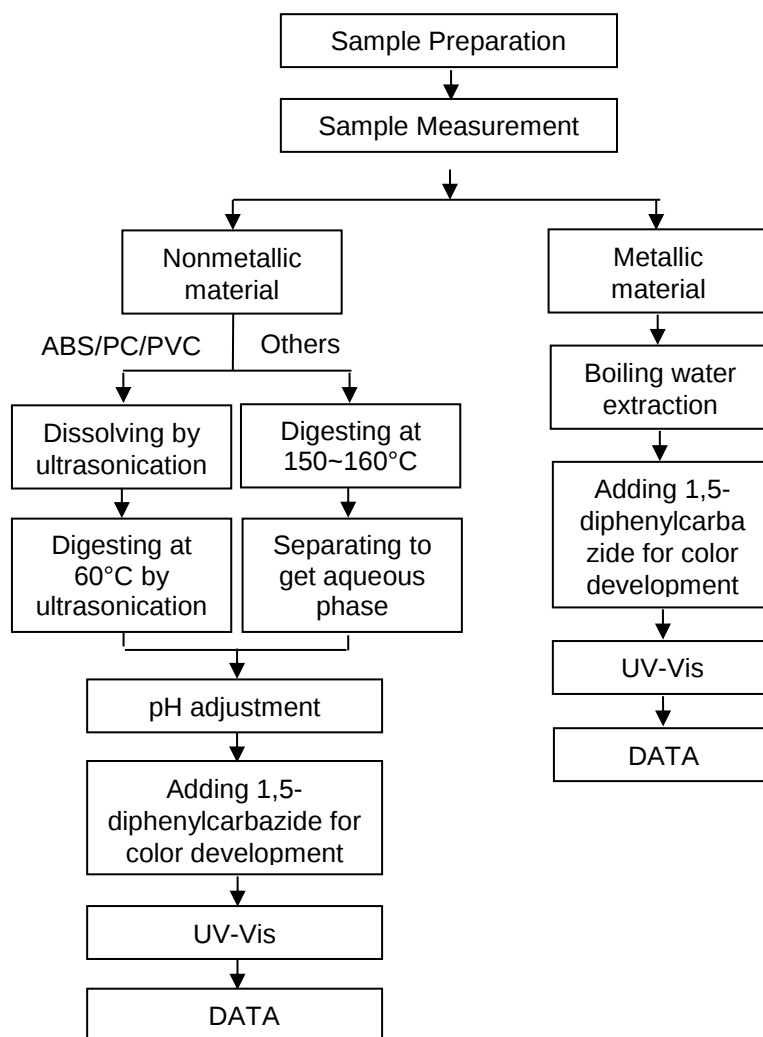
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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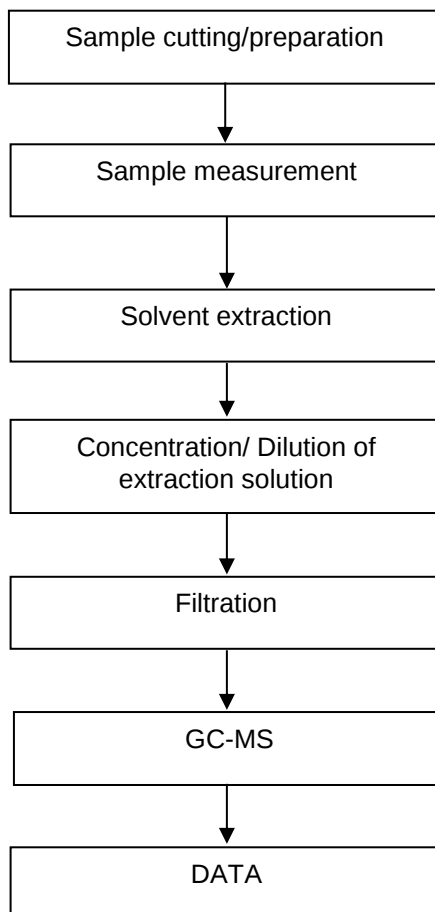
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PBB/PBDE Testing Flow Chart



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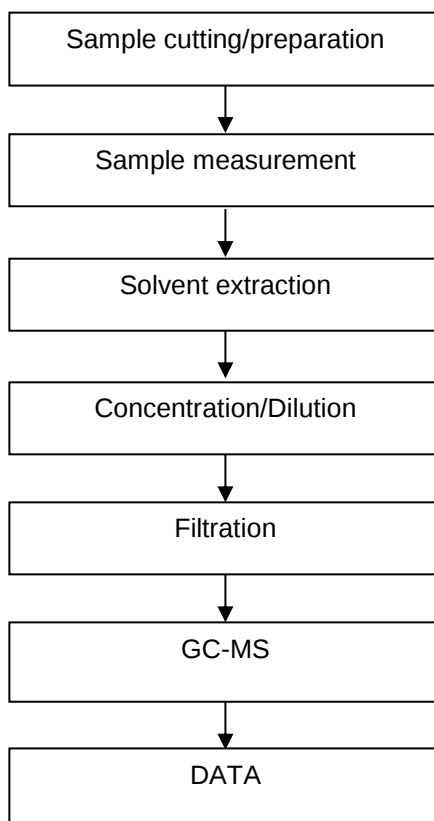
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Phthalates Testing Flow Chart



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H/39TH/40TH

10-

01/03/04/06/07/09/14/15/16/17/20/21/24/27/29/30/31/32/33/36/37/38/39/40/40S/52/53/66/
71/80

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05N-

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FL-

0300/0600/1400/2400/2401/2402/2700/3200/4000/5200/6000/1400N/2402N/3200N/5200N



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PRS-

1400/2300/2400/2600/3200/5200/0366/1466/2366/2466/2666/3266/5266/1466N/1466YN/
2366N/2466N/2666N/3266N/5266N/1466R/1466RY/2666F/2666R/3266R/5266R/14G/26G
/32G/52G/14GE/26GE/26GEQ/32GE/52GE/1477/2377/3277/5277/14MO/26MO/32MO/52
MO

UNE-1400/2400/2600/3200/5200/14N/26N/32N/52N/14R/26R/32R/52R/9400

UNS-14/24/32/52/14 LH/24 LH/26/26MR/28 LH/32 LH/52 LH/14 HP UN-UBK

65-

03/06/07/07B/09/14/16/18/21/23/26/29/30/31/32/34/38/42/42A/42B/50/51/60/92/93/600189
JL-14/24/26/28/32/52/93/93RH/red/yellow/blue/black HX-3000

JXL801C/802C/803/804C/805C/806C/807C/801CTH/802CTH/803CTH/804CTH/805CTH/
806CTH/807CTH/809CTH

PSE-

1400/1400Y/2322/2400/2600/2600R/3200/5200/1422/2622/3222/5222/0300YM/0600YM/
2400HQ

PPO-

0100/0300/0600/1400/1500/1800/2000/2400/2600/2700/2900/3200/3600/3700/3800/3900/
4000/5200/6000/7100/9300/9400/1400LH/2600LH/3200LH/5200LH/0300ET/0600ET/1400
ET/1500ET/1800ET/2000ET/2400ET/2600ET/2700ET/2900ET/3200ET/3600ET/3700ET/3
800ET/3900ET/4000ET/5200ET/6000ET/7100ET/9300ET

PUV-0300/0600/1400/1500/2600/2900/3200/3800/3900/4000/5200/5201/6000/7000/9300/
1400LED/2600LED/3200LED/3870LED/4000LED/5200LED/03E/06E/14E/15E/24E/26E/29
E/30E/32E/39E/40E/52E/52BKE/60E/71E/95R/14E(LED)/24E(LED)/32E(LED)/40E(LED)/5
2E(LED)/03LR/06LR/14LR/15LR/24LR/93/0600(NS)/PUV-1400(NS)/PUV-1500(NS)/PUV-
2600(NS)/PUV-7000(NS)

PWO-

03/14/24/29/32/58/59/59A/59B/60/1403/1403B/1403F/1403ZJ/2403/2403A/2403ZJ/3203/
3203A/3203ZJ/5202/5202B/5202F/5202H/5202ZJ/5203/5802/5901/5902

YZB-03/04/06/40/92S/93S/95A/2410/9400/9400A/1466N/2366N/2666N/3266N/5266N



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GT-1400N/2402N/3200N/5200N PG-1400/2300/2400/2600/2622/3200/5200

90-82/83/90/91/92 94-90/90A JB90-90 JB94-90 PPO 90-83/90-92/94-90

1000 /3000/ 3333 /4000 /5000 PMD UV-14/26/32/52/40A/40B

NO.1printing varnish/3#printing varnish/4#printing varnish/6printing varnish/668 printing varnish /8# printing varnish/PUV printing varnish/PUV reverse base oil/ PUV reverse face oil/19/59/402/71/79/52-94/2527/62#/30-90/PPO-6/PPO-80/PPO-92/PPO-95/PPO-402/FT-92/ Cover up ultra white



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Sample Photo:



SGS authenticate the photo on original report only

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