

No.: ETR24802273M01 Date: 30-Aug-2024

JX ADVANCED METALS CORPORATION 3 KURAMI, SAMUKAWA, KOZA, KANAGAWA 253-0101, JAPAN

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

Sample Submitted By : JX ADVANCED METALS CORPORATION

Sample Name : COPPER ALLOY

Style/Item No. : C5210

Sample Receiving Date : 14-Aug-2024

Testing Period : 14-Aug-2024 to 30-Aug-2024

Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II

to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted

sample(s).

**Test Results**: Please refer to following pages.





Page: 1 of 4

PIN CODE: 4D9B5442

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No.: ETR24802273M01 Date: 30-Aug-2024

JX ADVANCED METALS CORPORATION
3 KURAMI, SAMUKAWA, KOZA, KANAGAWA 253-0101, JAPAN

**Test Part Description** 

No.1 : COPPER COLORED METAL

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Lead (Pb)	With reference to IEC 62321-5: 2013,	mg/kg	2	19.4
	analysis was performed by ICP-OES.			
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.
	AMD1: 2017, analysis was performed by			
	ICP-OES.			
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7-1: 2015,	μg/cm²	0.1	n.d.
	analysis was performed by UV-VIS.			

#### Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. (#2) =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu$ g/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10  $\mu g/cm^2$ ). The coating is considered a non-Cr(VI) based coating
  - c. The result between  $0.10 \,\mu g/cm^2$  and  $0.13 \,\mu g/cm^2$  is considered to be inconclusive unavoidable coating variations may influence the determination.
- 5. This is the additional test report of ETR24802273.

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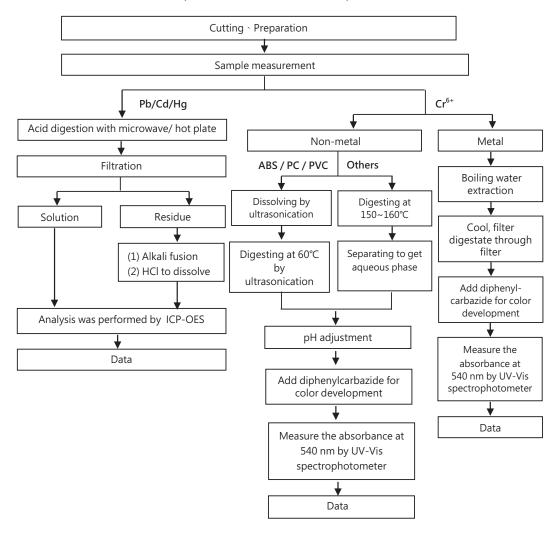
No.: ETR24802273M01 Date: 30-Aug-2024

JX ADVANCED METALS CORPORATION
3 KURAMI, SAMUKAWA, KOZA, KANAGAWA 253-0101, JAPAN

#### Analytical flow chart of heavy metal

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

( Cr<sup>6+</sup> test method excluded )



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No.: ETR24802273M01 Date: 30-Aug-2024

JX ADVANCED METALS CORPORATION
3 KURAMI, SAMUKAWA, KOZA, KANAGAWA 253-0101, JAPAN

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

### ETR24802273



\*\* End of Report \*\*

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**Test Report** No.: EKR24400496 Date: 17-Apr-2024 Page: 1 of 8

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 the applicant as:

Sample Submitted By : POLYPLASTICS TAIWAN CO., LTD.

Sample Name : PBT

Style/Item No. : 310NF ED3002 / Lot No.3Z75300

\_\_\_\_\_\_

Sample Receiving Date : 10-Apr-2024

Testing Period : 10-Apr-2024 to 17-Apr-2024

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and

amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).

(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in

the submitted sample.

**Test Results** : Please refer to following pages.

Ray Chang Ph.D./Departmen Manager Signed for and on behalf SGS TAIWAN LTD. Chemical Laboratory-Kaohsiung



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No.: EKR24400496 Date: 17-Apr-2024

POLYPLASTICS TAIWAN CO., LTD.

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

#### **Test Part Description**

No.1 : ED3002 PBT

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Lead (Pb)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.
	AMD1: 2017, analysis was performed			
	by ICP-OES.			
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.
	analysis was performed by UV-VIS.			
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 PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.
Dibromodiphenyl ether		mg/kg	5	n.d.
Tribromodiphenyl ether		mg/kg	5	n.d.
Tetrabromodiphenyl ether		mg/kg	5	n.d.
Pentabromodiphenyl ether		mg/kg	5	n.d.
Hexabromodiphenyl ether		mg/kg	5	n.d.
Heptabromodiphenyl ether		mg/kg	5	n.d.
Octabromodiphenyl ether		mg/kg	5	n.d.
Nonabromodiphenyl ether	]	mg/kg	5	n.d.
Decabromodiphenyl ether	]	mg/kg	5	n.d.
Sum of PBDEs		mg/kg	-	n.d.

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POLYPLASTICS TAIWAN CO., LTD.

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

Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP)		mg/kg	50	n.d.
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
Diisobutyl phthalate (DIBP)	analysis was performed by GC/MS.	mg/kg	50	n.d.
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	918
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.

#### Note:

1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm

2. MDL = Method Detection Limit

3. n.d. = Not Detected (Less than MDL)

4. "-" = Not Regulated

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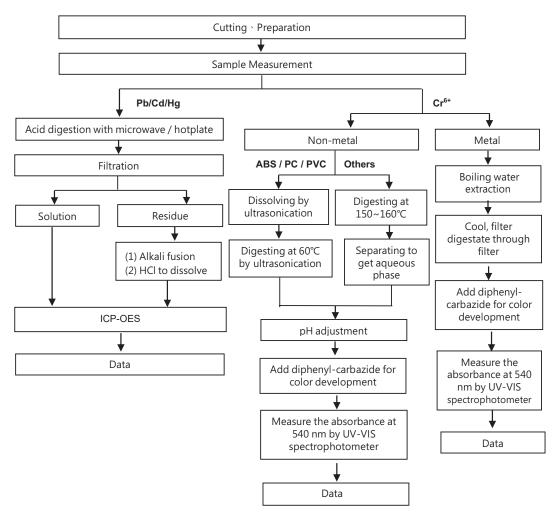
No.: EKR24400496 Date: 17-Apr-2024

POLYPLASTICS TAIWAN CO., LTD.

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

#### Analytical flow chart of Heavy Metal

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



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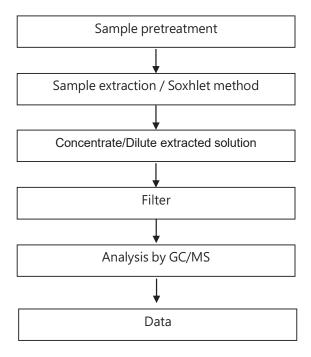
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No.: EKR24400496 Date: 17-Apr-2024

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

#### PBB/PBDE analytical FLOW CHART



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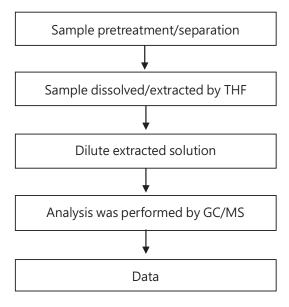


No.: EKR24400496 Date: 17-Apr-2024

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

#### Analytical flow chart of phthalate content

【Test method: IEC 62321-8】



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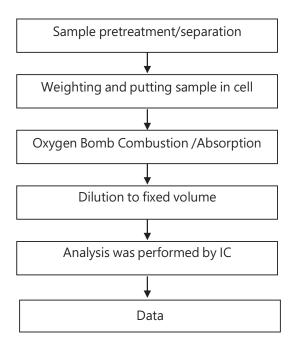
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No.: EKR24400496 Date: 17-Apr-2024

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

#### Analytical flow chart of Halogen



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No.: EKR24400496 Date: 17-Apr-2024

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

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

# EKR24400496



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No: SGACP240002404 Date: 19-Jul-2024 **Test Report** Page 1 of 4

I-PEX SINGAPORE PTE LTD 55 YISHUN INDUSTRIAL PARK A, SINGAPORE 768728

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

Sample Name Au plating thin film sample (60g)

10585980 SGS Order No.

Sample ID SGA24-0000476-0001

Sample Receiving Date 01-Jul-2024

**Testing Period** 01-Jul-2024 to 19-Jul-2024

Test Requested Selected test(s) as requested by the client

Please refer to next page(s) Test Method(s) Test Result(s) Please refer to next page(s)

Conclusion Based on the performed tests on submitted sample(s), the results of Lead, Mercury,

Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS Testing & Control Services Singapore Pte Ltd



Foong Wei Chern

Laboratory Manager, Multi-Lab FOLDER NUMBER: SGA24-0000476

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Date: 19-Jul-2024 No: SGACP240002404 Page 2 of 4 Test Report

#### Test Result(s):

Sample Description : GOLD COLORED FLAKES

Test Item(s)	Unit	Method	Results	MDL	Limit
Lead(Pb)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<1000
Mercury(Hg)	mg/kg	With reference to IEC 62321-4 :2013 +AMD1:2017. Analysis was performed by ICP/OES	ND	2	<1000
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<100
Hexavalent Chromium (Cr(VI)) ▼	μg/cm²	With reference to IEC 62321-7-1:2015. Analysis was performed by UV-Vis Spectrometry.	ND	0.10	-

#### Remarks:

- (1) mg/kg = ppm; 0.1wt% = 1000ppm
- (2) ND = Not Detected (Less than MDL)
- (3) MDL = Method Detection Limit
- (4) "-" = Not regulated

#### Notes:

- ( ) The m° ~ ! perm \$\$ ble li t is quoted f#) RoHS Di#"-' ve (EU) 2015/863.
- (2) IEC 62321 \$"# es is equivalent to EN 62321 \$"#"\$ 3
- °3 The sample is posi' ve for Cr(81) i+the Cr(VI)concentration is greater than 0.13 µ90-, 2. The sample coating is -)6\$ dered to contain Cr(84°3
  - %3The sample is negative f)# Cr(8I) i+Cr(8I) is ND (-)6-"6" on less than 0.10 µ90-, 2). The coating is considered a non-Cr(VI) based coati693
  - 3 The result between 0.10 µ90-, 2 and 0.13 µ90-, 2 is considered to be i6-)6-&!\$ ve-unavoidable coating vari° ons °y i6+uence the determ 6°' )6 3

46辩 or on on storage condil ons and producl on date of the tested sample i\$ unavailable and thus Cr(84 results represent status of the sample at the tige of testi693

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

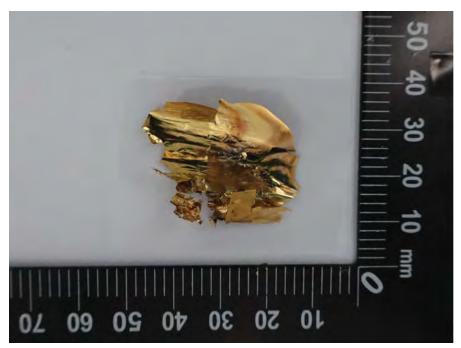
FOLDER NUMBER: SGA24-0000476

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**Test Report** No: SGACP240002404 Date: 19-Jul-2024 Page 3 of 4

### Sample Photo:



SGA24-0000476-0001 SGS authenticate the photo on ori9 nal report only

FOLDER NUMBER: SGA24-0000476

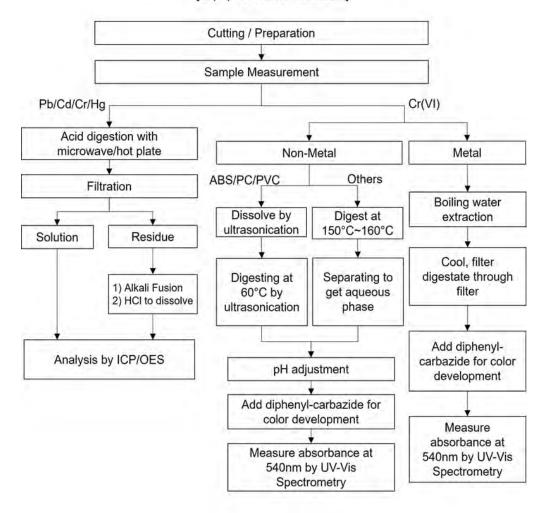
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No: SGACP240002404 Date: 19-Jul-2024 **Test Report** Page 4 of 4

#### Analytical flow chart - Heavy metals

Sample received was totally dissolved by preconditioning method. [Cr(VI) test method excluded]



\*\*\*End of Report\*\*\*

FOLDER NUMBER: SGA24-0000476

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No: SGACP240002406 Date: 19-Jul-2024 **Test Report** Page 1 of 4

I-PEX SINGAPORE PTE LTD 55 YISHUN INDUSTRIAL PARK A, SINGAPORE 768728

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

Sample Name Ni plating thin film sample (64g)

10585980 SGS Order No.

Sample ID SGA24-0000476-0002

Sample Receiving Date 01-Jul-2024

**Testing Period** 01-Jul-2024 to 19-Jul-2024

Test Requested Selected test(s) as requested by the client

Please refer to next page(s) Test Method(s) Test Result(s) Please refer to next page(s)

Conclusion Based on the performed tests on submitted sample(s), the results of Lead, Mercury,

Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS Testing & Control Services Singapore Pte Ltd



Foong Wei Chern

Laboratory Manager, Multi-Lab FOLDER NUMBER: SGA24-0000476

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No: SGACP240002406 Date: 19-Jul-2024 Page 2 of 4 Test Report

#### Test Result(s):

Sample Description : SILVER COLORED FLAKES

Test Item(s)	Unit	Method	Results	MDL	Limit
Lead(Pb)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<1000
Mercury(Hg)	mg/kg	With reference to IEC 62321-4 :2013 +AMD1:2017. Analysis was performed by ICP/OES	ND	2	<1000
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<100
Hexavalent Chromium (Cr(VI)) ▼	μg/cm²	With reference to IEC 62321-7-1:2015. Analysis was performed by UV-Vis Spectrometry.	ND	0.10	-

#### Remarks:

- (1) mg/kg = ppm; 0.1wt% = 1000ppm
- (2) ND = Not Detected (Less than MDL)
- (3) MDL = Method Detection Limit
- (4) "-" = Not regulated

#### Notes:

- ( ) The m° ~ ! perm \$\$ ble li t is quoted f#) RoHS Di#"-' ve (EU) 2015/863.
- (2) IEC 62321 \$"# es is equivalent to EN 62321 \$"#"\$ 3
- (3) ▼ = °3 The sample is posi' ve for Cr(81) i+the Cr(VI)concentration is greater than 0.13 μ90-, 2. The sample coating is -)6\$ dered to contain Cr(84°3
  - %3The sample is negative f)# Cr(8I) i+Cr(8I) is ND (-)6-"6" on less than 0.10 µ90-, 2). The coating is considered a non-Cr(VI) based coati693
  - 3 The result between 0.10 µ90-, 2 and 0.13 µ90-, 2 is considered to be i6-)6-&!\$ ve-unavoidable coating vari° ons °y i6+uence the determ 6°' )6 3

46辩 or on on storage condil ons and producl on date of the tested sample i\$ unavailable and thus Cr(84 results represent status of the sample at the tige of testi693

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

FOLDER NUMBER: SGA24-0000476

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**Test Report** No: SGACP240002406 Date: 19-Jul-2024 Page 3 of 4

### Sample Photo:



SGA24-0000476-0002 SGS authenticate the photo on ori9 nal report only

FOLDER NUMBER: SGA24-0000476

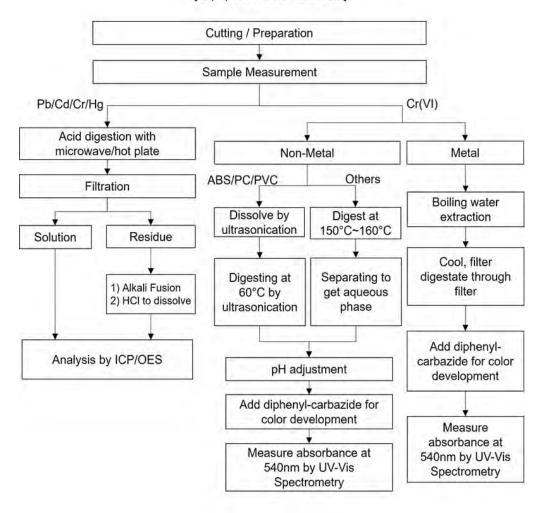
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No: SGACP240002406 Date: 19-Jul-2024 **Test Report** Page 4 of 4

#### Analytical flow chart - Heavy metals

Sample received was totally dissolved by preconditioning method. [Cr(VI) test method excluded]



\*\*\*End of Report\*\*\*

FOLDER NUMBER: SGA24-0000476

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**Test Report No.:** SHAEC24000428805 **Date:** Jan 12, 2024 Page 1 of 9

Client Name: SUZHOU SERENGETI ELECTRONIC MATERIAL CO.,LTD

Client Address: NO.168 TAIPING NORTH ROAD, TAICANG CITY, JIANGSU PROVINCE CHINA

Sample Name: PI-CCL

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

SGS Job No.: SHP24-000434

Sample Receiving Date: Jan 08, 2024

Testing Period: Jan 08, 2024 ~ Jan 12, 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 (Shanghai) Co., Ltd.

Sue Sheng

Approved Signatory





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**Test Report** No.: SHAEC24000428805 **Date:** Jan 12, 2024 Page 2 of 9

#### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SHA24-0004288-0001.C002	Brown/Copper solid sheet

#### 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	A2
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
Polybrominated biphenyls (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
Polybrominated diphenyl ethers (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
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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**Test Report** No.: SHAEC24000428805 **Date**: Jan 12, 2024 Page 3 of 9

Test Item(s)	Limit	Unit(s)	MDL	A2
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.

#### **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
Chlorine(CI)	mg/kg	50	85
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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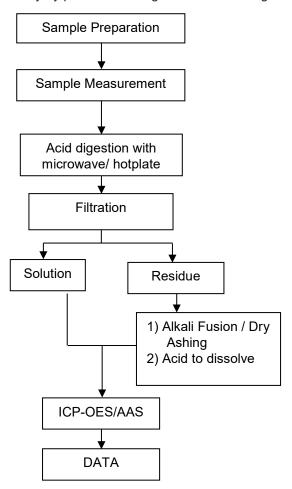
**ATTACHMENTS** 

**No.:** SHAEC24000428805 **Date:** Jan 12, 2024

### Page 4 of 9

#### **Elements Testing Flow Chart**

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



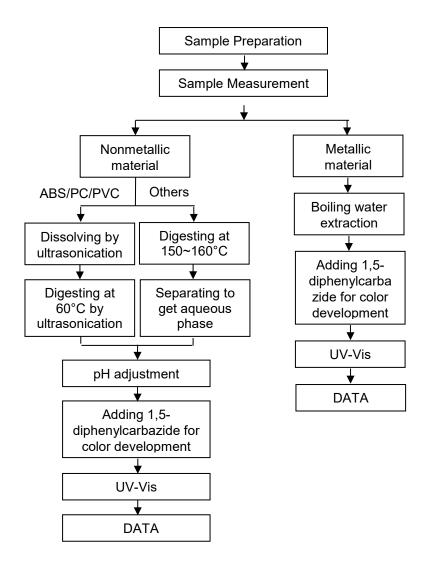


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#### Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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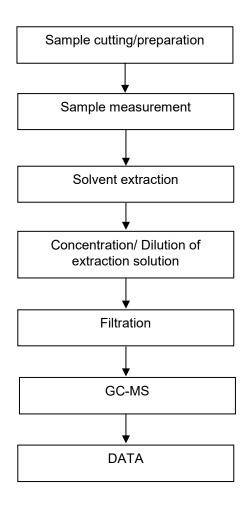
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#### PBBs/PBDEs Testing Flow Chart





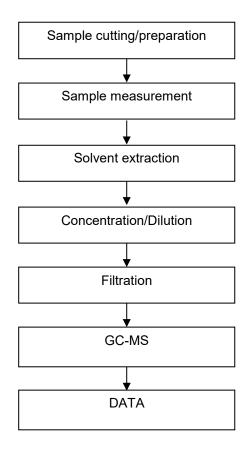
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#### **Phthalates Testing Flow Chart**





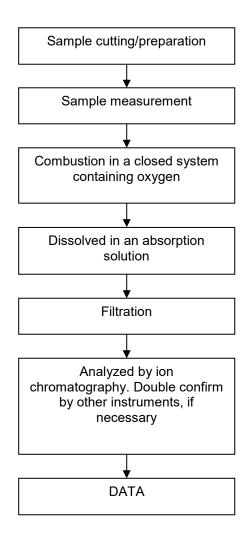
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#### **Halogen Testing Flow Chart**





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**Test Report No.:** SHAEC24000428805 **Date:** Jan 12, 2024 Page 9 of 9

Sample Photo:



SGS authenticate the photo on original report only
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**Test Report** No. TAOEC2306819101 Date: 25 Sep 2023 Page 1 of 14

Client Name: JIANGSU KUANGSHUN PHOTOSENSITIVITY NEW-MATERIAL STOCK CO.,LTD

Client Address: Huacheng Road 18, Qingyang Industried Area, Jiangyin City, Jiangsu Province

Sample Name : Liquid photoimageable solder mask

Model No.: KSM-S6189EBK

Material No.: KSM-19E

Manufacturer: JIANGSU KUANGSHUN PHOTOSENSITIVITY NEW-MATERIAL STOCK

CO.,LTD

Client Ref. Information: To 75 °C pre-bake for 3 hours ;150°C,2 houre curable mixture

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

SGS Job No.: TIC1020230916151501Y7KO - QD

Date of Sample Received: 18 Sep 2023

Testing Period : 18 Sep 2023 - 25 Sep 2023

Test Requested : Selected 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).

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- 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)	PASS
Halogen	See Results
Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalates	See Results



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No. TAOEC2306819101

Date: 25 Sep 2023

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Justin

Zhang Bo, Justin Approved Signatory





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No. TAOEC2306819101

Date: 25 Sep 2023

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Test Result(s):

#### **Test Part Description:**

Specimen No. SGS Sample ID Description
SN1 TAO23-068191.001 Black solid

#### Remarks:

- (1) 1 mg/kg = 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 (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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. TAOEC23068191	101	Date: 2	25 Sep 2023	Page 4 of 14
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	20	84
Chlorine (CI)	mg/kg	50	111
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

#### Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

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

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanesulfonate (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) <sup>^</sup>	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND



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Test Report	No. TAOEC2306	819101	Date: 25 Sep 2023	F	Page 5 of 14
Test Item(s) 2-(N-methylperfluoro- 1-octanesulfor (MeFOSE)	namido) -ethanol	<u>CAS NO.</u> 24448-09-7	<u>Unit</u> mg/kg	MDL 0.01	<u>001</u> ND
Perfluorooctane sulfonamide (PFOS	A)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and i	ts salts+		mg/kg	0.01	ND

#### Notes:

- (1) ^ PFOS refer to its acid, salts/derivatives including PFOS (CAS No.: 1763-23-1) , PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8) and PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-N(CH3)2(C10H21)2 (CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7).
- (2) PFOA and its salts+ refer to its acid / salts including PFOA (CAS No.: 335-67-1), PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

#### Hexabromocyclododecane (HBCDD)

Test Method: With reference to US EPA 3550C:2007, analyzed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

#### **Phthalates**

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
84-74-2	%	0.003	ND
117-81-7	%	0.003	ND
85-68-7	%	0.003	ND
28553-12-0/	%	0.01	ND
68515-48-0			
117-84-0	%	0.003	ND
26761-40-0/	%	0.01	ND
68515-49-1			
131-11-3	%	0.003	ND
84-66-2	%	0.003	ND
131-16-8	%	0.003	ND
84-69-5	%	0.003	ND
131-18-0	%	0.003	ND
84-75-3	%	0.003	ND
84-61-7	%	0.003	ND
	84-74-2 117-81-7 85-68-7 28553-12-0/ 68515-48-0 117-84-0 26761-40-0/ 68515-49-1 131-11-3 84-66-2 131-16-8 84-69-5 131-18-0 84-75-3	84-74-2       %         117-81-7       %         85-68-7       %         28553-12-0/       %         68515-48-0       117-84-0         117-84-0       %         26761-40-0/       %         68515-49-1       31-11-3         84-66-2       %         131-16-8       %         84-69-5       %         131-18-0       %         84-75-3       %	84-74-2       %       0.003         117-81-7       %       0.003         85-68-7       %       0.003         28553-12-0/       %       0.01         68515-48-0       117-84-0       %       0.003         26761-40-0/       %       0.01         68515-49-1       131-11-3       %       0.003         84-66-2       %       0.003         131-16-8       %       0.003         84-69-5       %       0.003         131-18-0       %       0.003         84-75-3       %       0.003



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Test Report	No. TAOEC2306819101	Date: 25 Sep 2023	Page 6 of 14
Test Item(s)	CAS NO.	<u>Unit</u>	MDL 001
Diphenyl Phthalate (DPhP)	84-62-8	%	0.003 ND
Dibenzyl Phthalate (DBzP)	523-31-9	%	0.003 ND
Dinonyl Phthalate (DNP)	84-76-4	%	0.003 ND
Diisooctyl Phthalate (DiOP)	27554-26-3	%	0.01 ND
Bis(2-methoxyethyl) Phthalate (DMEI	P) 117-82-8	%	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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Date: 25 Sep 2023

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### **Halogen Testing Flow Chart**

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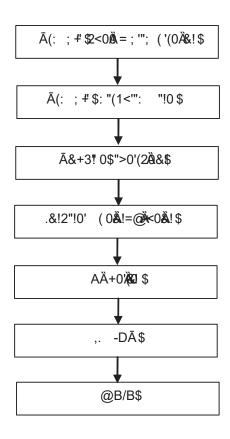


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# **HBCDD Testing Flow Chart**



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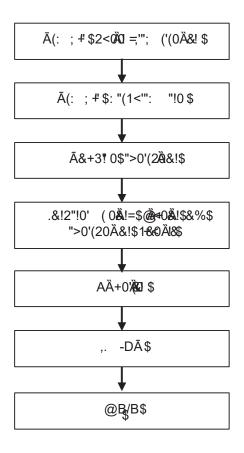
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# PBBs/PBDEs Testing Flow Chart

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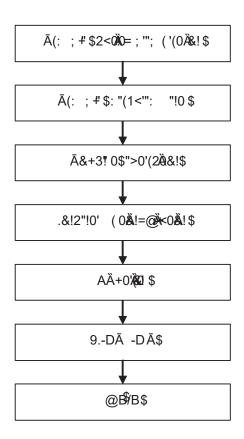
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# **PFOS/PFOA Testing Flow Chart**

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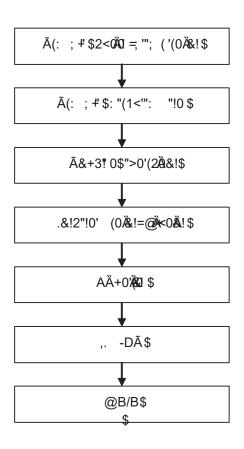
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# **Phthalates Testing Flow Chart**

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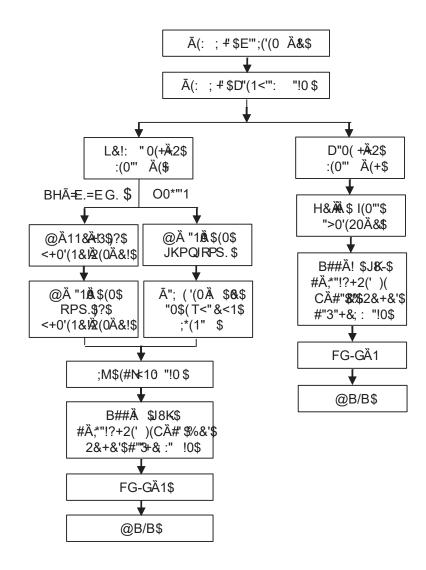
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#### **ATTACHMENTS**

# Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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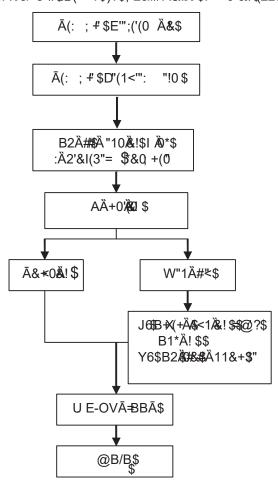
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# **Elements (IEC62321) Testing Flow Chart**

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Date: 25 Sep 2023 Page 14 of 14

Sample photo:



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**Test Report** No. TAOEC2307419101 Date: 19 Oct 2023 Page 1 of 14

Client Name: JIANGSU KUANGSHUN PHOTOSENSITIVITY NEW-MATERIAL STOCK CO.,LTD

Client Address: Huacheng Road 18, Qingyang Industried Area, Jiangyin City, Jiangsu Province

Sample Name: Liquid photoimageable solder mask

Model No.: KSM-S6189EWT

Material No.: KSM-19E

Manufacturer: JIANGSU KUANGSHUN PHOTOSENSITIVITY NEW-MATERIAL STOCK

CO.,LTD

Client Ref. Information: To 75 °C pre-bake for 3 hours :150°C

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

SGS Job No. : TIC1020231011085627V47B - QD

Date of Sample Received: 12 Oct 2023

Testing Period: 12 Oct 2023 - 19 Oct 2023

Test Requested: Selected 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).

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- 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)	PASS
Halogen	See Results
Sulfur	See Results
Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalates	See Results



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No. TAOEC2307419101

Date: 19 Oct 2023

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Justin

Zhang Bo, Justin Approved Signatory





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No. TAOEC2307419101

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Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description SN1 TAO23-074191.001 White solid

#### Remarks:

- (1) 1 mg/kg = 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 (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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	20	ND
Chlorine (CI)	mg/kg	50	466
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

### Sulfur

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sulfur (S)	mg/kg	50	243

## Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts



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

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Perfluorooctanesulfonate (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-methylperfluoro- 1-octanesulfonamido) -ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	0.01	ND

#### Notes:

- (1) ^ PFOS refer to its acid, salts/derivatives including PFOS (CAS No.: 1763-23-1), PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8) and PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-N(CH3)2(C10H21)2 (CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7).
- (2) PFOA and its salts+ refer to its acid / salts including PFOA (CAS No.: 335-67-1), PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)

## Hexabromocyclododecane (HBCDD)

Test Method: With reference to US EPA 3550C:2007, analyzed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

#### **Phthalates**

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0/	%	0.01	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND



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Test Item(s)	CAS NO.	<u>Unit</u>	MDL 001
Diisodecyl Phthalate (DIDP)	26761-40-0/	%	0.01 ND
	68515-49-1		
Dimethyl Phthalate (DMP)	131-11-3	%	0.003 ND
Diethyl Phthalate (DEP)	84-66-2	%	0.003 ND
Dipropyl Phthalate (DPrP)	131-16-8	%	0.003 ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003 ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%	0.003 ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003 ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%	0.003 ND
Diphenyl Phthalate (DPhP)	84-62-8	%	0.003 ND
Dibenzyl Phthalate (DBzP)	523-31-9	%	0.003 ND
Dinonyl Phthalate (DNP)	84-76-4	%	0.003 ND
Diisooctyl Phthalate (DiOP)	27554-26-3	%	0.01 ND
Bis(2-methoxyethyl) Phthalate (DME	P) 117-82-8	%	0.003 ND

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**Test Report** 

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**Halogen Testing Flow Chart** 

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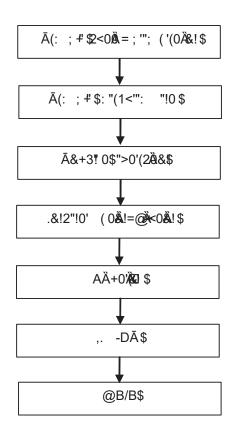


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# **HBCDD Testing Flow Chart**



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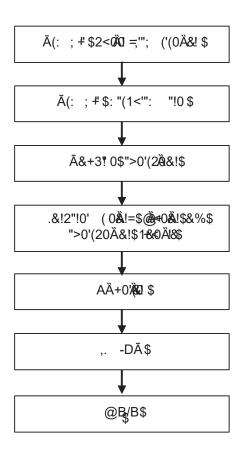
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# PBBs/PBDEs Testing Flow Chart

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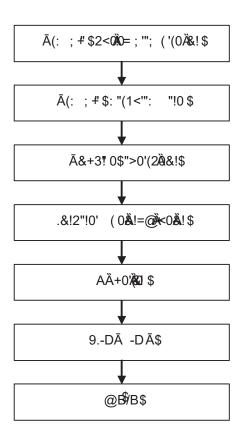
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# **PFOS/PFOA Testing Flow Chart**

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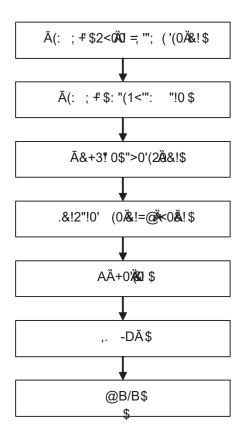
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# **Phthalates Testing Flow Chart**

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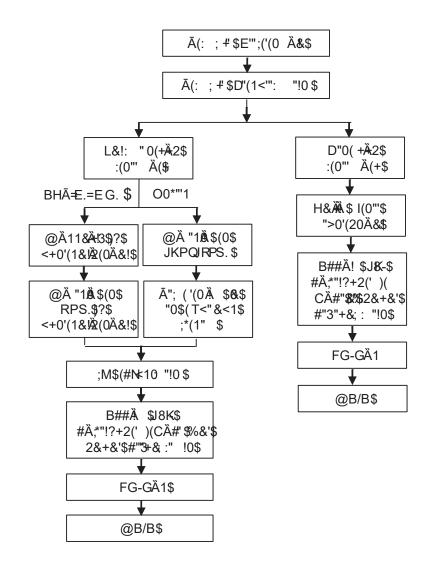
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# Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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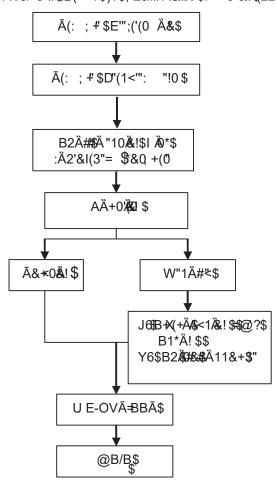
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# **Elements (IEC62321) Testing Flow Chart**

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# TEST REPORT

# 测试报告

LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 1 OF 11

APPLICANT : SHENZHEN BAOXIN CHEMICAL TECHNOLOGY CO., LTD

申请公司名称 深圳市宝鑫化工技术有限公司

NO. 7, SHAJIANG EAST ROAD, SONGGANG STREET, BAO'AN

DISTRICT, SHENZHEN

深圳市宝安区松岗街道沙江东路7号

**DATE OF SUBMISSION**: FEB 23, 2024

样品收取日期 2024年2月23日

**TEST PERIOD** : FEB 23, 2024 TO FEB 28, 2024

测试周期 2024年2月23日至2024年2月28日

**SAMPLE DESCRIPTION**: ANTI-OXIDATION LIQUID/COPPER SURFACE PROTECTOR

样品描述 防氧化液/铜面保护剂

Style No. 型号 : KBX-108H ( KBX-508)

Sample Size 样品数量 : 1

Manufacturer 制造商 : SHENZHEN BAOXIN CHEMICAL TECHNOLOGY CO., LTD

深圳市宝鑫化工技术有限公司

NO. 7, SHAJIANG EAST ROAD, SONGGANG STREET, BAO'AN

DISTRICT, SHENZHEN

深圳市宝安区松岗街道沙江东路7号



BUREAU VERITAS SHENZHEN CO.,LTD DONGGUAN BRANCH

libr Bui

Lisa Bai

Analytical lab technical ass. manager

RT/ Min Chen

#### REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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Bureau Veritas Shenzhen Co., Ltd., Dongguan Branch No.96, Houjie, Guantai Road., Houjie, Dongguan, Guangdong, China Tel: +86-769-89982098 Fax: +86-769-85991080 This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/curs-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/curs-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to rof ro any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

www.cps.bureauveritas.com



LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 2 OF 11

# SUMMARY OF TEST RESULTS

测试结果摘要

TEST REQUESTED	CONCLUSION	REMARK
测试项目	结论	备注
Heavy metals content requirements of the European		
Parliament and Council Directive 2011/65/EU on the		
Restriction of the Use of Certain Hazardous		
Substances in Electrical and Electronic Equipment	PASS	
(RoHS) with its Amendment Directive 2015/863/EU.	合格	
重金属含量 - 有关欧盟委员会针对电子 产品的指令(电子电器禁用某些有害物质指令), 2011/65/EU的修正案指令(EU)2015/863		
Flame retardants content requirements of the European		
Parliament and Council Directive 2011/65/EU on the		
Restriction of the Use of Certain Hazardous		
Substances in Electrical and Electronic Equipment	PASS	
(RoHS) with its Amendment Directive 2015/863/EU.	合格	
阻燃剂含量 - 有关欧盟委员会针对电子		
产品的指令(电子电器禁用某些有害物质指令),		
2011/65/EU的修正案指令(EU)2015/863		
BBP/DBP/DEHP/DIBP content requirements of the		
European Parliament and Council Directive		
2011/65/EU on the Restriction of the Use of Certain		
Hazardous Substances in Electrical and Electronic	PASS	
Equipment (RoHS) with its Amendment Directive	合格	
2015/863/EU		
理事会关于电子电气设备中限制使用某些有害物质		
(RoHS)的修正案指令(EU)2015/863		
(KU113)用10上来1日マ(EU)2013/003		



LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 3 OF 11

# **Photo of the Submitted Sample**

递交样品照片





LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 4 OF 11

# **Tested Component(s) Description List:**

# 测试部位的描述

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
测试项目	项目 / 部件描述	位置	款式
I001	Transparent blue liquid 透蓝色液体	Liquid 液体	-



LAB NO. 报告编号 : (8824)054-0003 完成日期 : Feb 28, 2024 **DATE** 

**PAGE** 页码 : 5 OF 11

# **TEST RESULT**

测试结果

Heavy Metals Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its **Amendment Directive 2015/863/EU** 

重金属含量 - 有关欧盟委员会针对电子产品的指令(电子电器禁用某些有害物质指令), 2011/65/EU 的修正案指令(EU)2015/863

**Test Method** See Appendix I.

测试方法 见附录

See Analytes (Parameter) and their corresponding	Type I 类 I	Metallic material 金属材料
Maximum Allowable Limit (Req.) in Result Table 分析物 (参数) 及其对应的	Type II 类 II	Glass or ceramic material 玻璃或陶瓷材料
最大允许限 (要求) – 见结果表	Type III 类 III	Other non-metallic material except Type II 其他非金属材料,类 II 材料除外

-	Unit 单位	Req. 要求	Result 结果
Test Item(s) 测试项目	-	-	I001
Type 类型	-	III	III
Parameter 参数	-	-	-
Lead (Pb) 铅	mg/kg	1000	ND
Cadmium (Cd) 镉	mg/kg	100	ND
Mercury (Hg) 汞	mg/kg	1000	ND
Chromium VI (Cr VI) 六价铬	mg/kg	1000	ND
Conclusion 结论	-	-	PASS 合格



LAB NO. 报告编号 : (8824)054-0003 **DATE** 完成日期 : Feb 28, 2024 **PAGE** 页码 : 6 OF 11

#### **TEST RESULT**

# 测试结果

# Note / key注释:

ND = Not detected 未检出 ">" = Greater than 大于 Req. = Requirement 要求

NR = Not requested 未要 mg/kg = milligram(s) per kilogram毫克每千克= ppm = part(s) per

million

10000 mg/kg = 1 %% = percent百分率 NA = Not Applicable

Detection Limit检出限 (mg/kg): For Type I - Each (Pb, Cd & Hg) 10

类 I- 各 (铅, 镉和 汞) 10

For Type II - Each (Pb, Cd, Hg & Cr VI) 10

类 II - 各 (铅, 镉, 汞和六价铬) 10

For Type III- Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI): 10;

Others - Each (Pb, Cd & Hg): 10; Cr VI: 3.0

类 III -聚合物及电子产品 – 各 (铅, 镉, 汞和六价铬): 10 其他材料 – 各 (铅, 镉和汞): 10; 六价铬: 3.0

## Remark 备注:

The list of analytes is summarized in table of Appendix I. 分析物列表 - 见附录。

According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive. 根据欧盟委员会 2011/65/EU 指令中,条款 5"适应科学技术进步的附件",附件 III 和 IV 中

列明的测试项目中的材料和部件可予以豁免。



[a]

LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 7 OF 11

参照国际标准 ISO 17075-1:2017

# APPENDIX I 附录I

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ]: 分析物名单及其相应的测试方法 [ 欧盟委员会指令 2011/65/EU ]:								
No.	Name of Analytes 分析物名称	Test Method(s) 测试方法						
1	Lead (Pb) 铅	With reference to International Standard IEC						
2	Cadmium (Cd) 镉	62321-5: 2013. 参照国际标准 IEC 62321-5: 2013.						
3	Mercury (Hg) 汞	With reference to International Standard IEC 62321-4:2013+A1:2017. 参照国际标准 IEC 62321-4:2013+A1:2017.						
4	Chromium VI (Cr VI) 六价铬	Metal 金属: With reference to International Standard IEC 62321-7-1: 2015. 参照国际标准 IEC 62321-7-1: 2015. Polymers and Electronics 聚合物及电子产品: With reference to European Standard EN 62321-7-2: 2017. 参照 EN 62321-7-2: 2017. Leather 皮革: International Standard ISO 17075-1:2017 国际标准 ISO 17075-1:2017 Other than Metal, Leather, Polymers and Electronics 其他非金属,皮革,聚合物及电子产品材料: With reference to International Standard ISO 17075-1:2017						

The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.

该方法的原理是在由 IEC TC111 WG3 组织的两次研究中得到了充分评估并获得了认可。这些研究侧重于对金属样品上防腐涂层中六价铬的存在的检测(定性测试)。



LAB NO.报告编号: (8824)054-0003DATE完成日期: Feb 28, 2024PAGE页码: 8 OF 11

# **TEST RESULT**

测试结果

Flame Retardants Content – European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU

阻燃剂含量 - 有关欧盟委员会针对电子产品的指令(电子电器禁用某些有害物质指令), 2011/65/EU 的修正案指令(EU)2015/863

**Test Method** . See Appendix I.

测试方法 见附录

	TT *4		D 14
-	Unit 单位	Req. 要求	Result 结果
Test Item(s) 测试项目	<u>+</u> 近	<del>女</del> 水	初本 I001
Parameter 参数	-	-	-
PBBs 多溴联苯	mg/kg	1000	ND
MonoBB 一溴联苯	mg/kg	-	ND
DiBB 二溴联苯	mg/kg	-	ND
TriBB 三溴联苯	mg/kg	-	ND
TetraBB 四溴联苯	mg/kg	-	ND
PentaBB 五溴联苯	mg/kg	-	ND
HexaBB 六溴联苯	mg/kg	-	ND
HeptaBB 七溴联苯	mg/kg	-	ND
OctaBB 八溴联苯	mg/kg	-	ND
NonaBB 九溴联苯	mg/kg	-	ND
DecaBB 十溴联苯	mg/kg	-	ND
PBDEs 多溴联苯醚	mg/kg	1000	ND
MonoBDE 一溴联苯醚	mg/kg	-	ND
DiBDE 二溴联苯醚	mg/kg	-	ND
TriBDE三溴联苯醚	mg/kg	-	ND
TetraBDE 四溴联苯醚	mg/kg	-	ND
PentaBDE 五溴联苯醚	mg/kg	-	ND
HexaBDE 六溴联苯醚	mg/kg	-	ND
HeptaBDE 七溴联苯醚	mg/kg	-	ND
OctaBDE 八溴联苯醚	mg/kg	-	ND
NonaBDE 九溴联苯醚	mg/kg	-	ND
DecaBDE 十溴联苯醚	mg/kg	-	ND
Conclusion 结论	-	-	PASS 合格



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# **TEST RESULT**

测试结果

Note / key:

ND = Not detected 未检出 ">" = Greater than 大于 Req. = Requirement 要求

NR = Not requested 未要 mg/kg = milligram(s) per kilogram毫克每千克= ppm = part(s) per

求 million

NA = Not Applicable 10000 mg/kg = 1 % % = percent百分率

Detection Limit检出限 (mg/kg):

#### Remark:

- The list of analytes is summarized in table of Appendix I. 分析物列表 - 见附录。

- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive. 根据欧盟委员会 2011/65/EU 指令中,条款 5"适应科学技术进步的附件",附件 III 和 IV 中列明的测试项目中的材料和部件可予以豁免。



LAB NO. 报告编号 :(8824)054-0003 **DATE** 完成日期 : Feb 28, 2024 **PAGE** 页码 : 10 OF 11

# APPENDIX I 附录I

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ]:

No.	Name of Analytes 分析物名称	Test Method(s) 测试方法
1	Polybromobiphenyls (PBBs) 多溴联苯 - Bromobiphenyl (MonoBB) 一溴联苯 - Dibromobiphenyl (DiBB) 二溴联苯 - Tribromobiphenyl (TriBB) 三溴联苯 - Tetrabromobiphenyl (TetraBB) 四溴联苯 - Pentabromobiphenyl (PentaBB) 五溴联苯 - Hexabromobiphenyl (HexaBB) 六溴联苯 - Heptabromobiphenyl (HeptaBB) 七溴联苯 - Octabromobiphenyl (OctaBB) 八溴联苯 - Nonabromobiphenyl (NonaBB) 九溴联苯 - Decabromobiphenyl (DecaBB) 十溴联苯	With reference to Internationa
2	Polybromodiphenyl (Becabb)	- Standard IEC 62321-6: 2015. 参照国际标准 IEC 62321-6: 2015.
[a]	The principle of this method was evaluated and support 111 WG3. These studies were focused on detecting t protection coatings on metallic samples.	

该方法的原理是在由 IEC TC111 WG3 组织的两次研究中得到了充分评估并获得了认可。这些研究侧重于对金属样品上防腐涂层中六价铬的存在的检测(定性测试)。



LAB NO. 报告编号 : (8824)054-0003 DATE 完成日期 : Feb 28, 2024 : 11 OF 11

**PAGE** 页码

#### **TEST RESULT**

测试结果

BBP/DBP/DEHP/DIBP Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU

邻苯二甲酸盐测试- 指令2011/65/EU 欧洲议会和理事会关于电子电气设备中限制使用某些有害物质 (RoHS)的修正案指令(EU)2015/863.

With reference to International Standard IEC 62321-8:2017

**Test Method:** 参照国际标准IEC 62321-8:2017

Test Parameter: 测试参数:	BBP	BBP DBP DEHP		DiBP	-	
Limit 限值(%):	0.1	0.1	0.1 0.1		-	
Test Item(s)						
测试项目		Resul	lt (%)		Conclusion	

Note / key:

BBP = Butyl benzyl phthalate (CAS No:

85-68-7)

邻苯二甲酸丁苄酯

DEHP = Di(2-ethylhexyl) phthalate (CAS No:

邻苯二甲酸二异辛酯

ND = Not detected 未检出

% = percent 百分率

10000 mg/kg = 1 %

DiBP = Diisobutyl phthalate (CAS No: 84-69-5)

DBP = Dibutyl phthalate (CAS No: 84-74-2)

邻苯二甲酸二丁酯

邻苯二甲酸二异丁酯

mg/kg = milligram(s) per kilogram 毫克每千克

检测限 (%): 各 0.005

#### Remark:

- The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.
  - 该修正案将于2019年7月22生效,对于医疗器械和控制器械的生效日期为2021年7月22
- If there is any ambiguity between English and Chinese version, please refer to the English version. 如果中英文有歧义,以英文版为准。

\*\*\* End of Report \*\*\*



**Test Report No.:** CANEC24002135402 **Date:** Feb 02, 2024 Page 1 of 8

Client Name: 3M MATERIAL TECHNOLOGY (GUANGZHOU) CO.,LTD.

Client Address: NO.9, NANXIANG 2 ROAD, SCIENCE CITY GUANGZHOU HIGH TECH INDUSTRY

**DEVELOPMENT DISTRICT** 

Sample Name: 9448AB
Model No.: 9448AB
Client Ref. Information: 9448A

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

------

SGS Job No.: GZP24-002238
Sample Receiving Date: Jan 29, 2024

Testing Period: Jan 29, 2024 ~ Feb 02, 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

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

Dongyu Xie

Approved Signatory





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**Test Report No.:** CANEC24002135402 **Date:** Feb 02, 2024 Page 2 of 8

# Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0021354-0001.C001	Black double-side adhesive film

#### 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
Polybrominated biphenyls (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
Polybrominated diphenyl ethers (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
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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**Test Report** No.: CANEC24002135402 **Date**: Feb 02, 2024 Page 3 of 8

Test Item(s)	Limit	Unit(s)	MDL	A1
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.

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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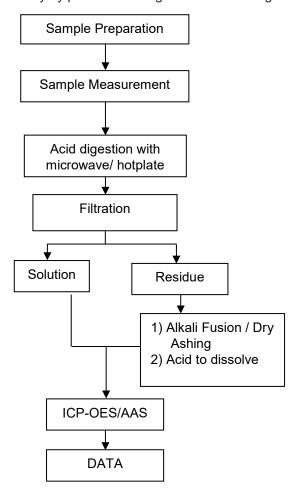
No.: CANEC24002135402

**Date:** Feb 02, 2024

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# **Elements Testing Flow Chart**

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





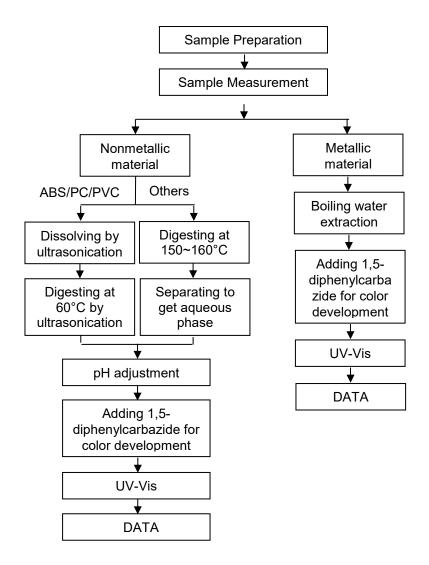
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# Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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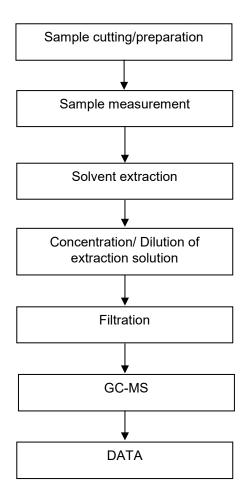
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# **PBB/PBDE Testing Flow Chart**





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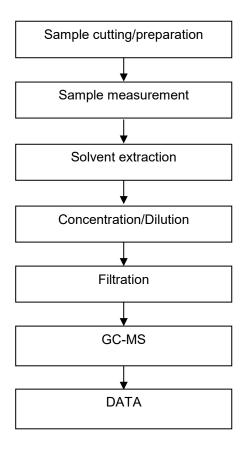
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# **Phthalates Testing Flow Chart**





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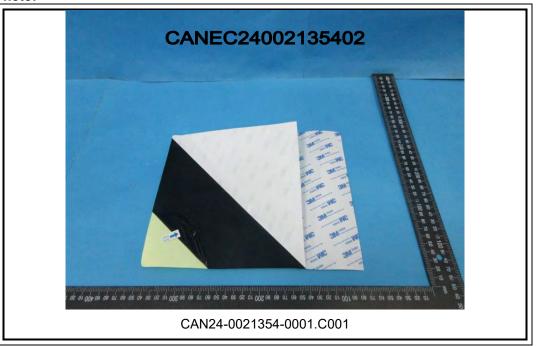
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Sample Photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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# RoHs Exclusive item Hazardous Substance

本公司保證,本產品均屬環保產品,皆符合 RoHs 法規要求,並適用於 RoHs 規定之排除條款。

We hereby confirm and assure that all parts and sub-materials delivered to your company with RoHs Standard and apply to RoHs Exclusive item.

# RoHs 合金類排除條款如下:

# RoHs Exclusive item:

合金種類	鉛允許含量(ppm)
alloys item	Lead acceptance concentration
鋼材 steel	<3,500ppm
鋁合金 aluminum alloys	<4,000ppm
銅合金 copper alloys	<40,000ppm
高鎔點銲料(有鉛焊錫) Lead in high melting temperature type solder	≥ 85,0000 PPM

公司名稱: 譁裕實業股份有限公司

Company name: WHA YU INDUSTRIAL CO., LTD

公司地址:新竹市公道五路二段 326 號

Company address: No.326. Sec 2. Kung Tao 5 Road. Hsin Chu City, Taiwan

連絡電話: 03-5714225

TEL:+886-3-5714225

負責人:鄒宓富 董事長

Sign by:

立約日期: 2023.05.24

Date: 2023/05/24





## **MATERIAL COMPOSITION LIST**

Supplier :

Customer:東莞台霖電子通訊有限公司

Supplier Part No. : C059-510503-A

Customer Part No: QSI: ОМТ:





Custon	ner Part No: QSI:	QMI:										NO: Hxxxxx
No.	Composition part	Material Name	Supplier	RoHS Report No.	Material mass (mg)	Material mass (%)	Element name composition	CAS No.	Element % ( by weight )	Element Wt	Wt %	ppm
	構成部件	部件材質名	Name	(Report Date)	材質重量	材質重量百分比	構成之元素名稱	CAS 編號	元素百分比 (以重量計)	(mg)	Of Total Unit Wt	
		Φ0.81mm Cable-外被		NGBEC2400058600			FEP	25067-11-2	26.000	31.2000	8.9143	89142.86
		Φ0.81mm Cable-色母		HKTEC2401654112		34.29%	Pigment	-	5.000	6.0000	1.7143	17142.86
		Ф0.81mm Cable-編織		A2230496550101001			Cu	7440-50-8	36.460	43.7520	12.5006	125005.71
1	Cable	Ψυ.ο IIIIII Cable-編戦	KAIBO	A2230496550101001	120.0000		Sn	7440-31-5	1.670	2.0040	0.5726	5725.71
		Φ0.81mm Cable-絕緣		NGBPC24000131241			FEP	25067-11-2	19.000	22.8000	6.5143	65142.86
		Φ0.81mm Cable-導體		SHAEC23019069713			Cu	7440-50-8	10.920	13.1040	3.7440	37440.00
		Ψυ.o mini Cable- 學屉		SHAEC23019009713			Ag	7440-22-4	0.950	1.1400	0.3257	3257.14
							Cu	7440-50-8	44.690	24.5795	7.0227	70227.14
							Sn	7440-31-5	5.000	2.7500	0.7857	7857.14
		MHF Connector-外殼		ETR24802273M01			Р	7723-14-0	0.050	0.0275	0.0079	78.57
		Willia Connector-5/902		E1142400227 0100 1			Pb	7439-92-1	0.025	0.0138	0.0039	39.29
							Fe	7439-89-6	0.100	0.0550	0.0157	157.14
							Zn	7440-66-6	0.100	0.0550	0.0157	157.14
							PBT	24968-12-5	0.001	0.0006	0.0002	1.57
		MHF Connector-膠芯		EKR24400496			Р	7723-14-0	0.065	0.0358	0.0102	102.14
2	I-PEX 4L-Connector		I-PEX		55.0000	15.71%	Glass Fiber	65997-17-3	0.001	0.0006	0.000157	1.57
		MHF Connector-導體					Cu	7440-50-8	44.690	24.5795	7.0227	70227.14
							Sn	7440-31-5	5.000	2.7500	0.7857	7857.14
				ETR24802273M01			Р	7723-14-0	0.050	0.0275	0.0079	78.57
				ETTE TOOLET ONTO			Pb	7439-92-1	0.025	0.0138	0.0039	39.29
							Fe	7439-89-6	0.100	0.0550	0.0157	157.14
							Zn	7440-66-6	0.100	0.0550	0.0157	157.14
		MHF Connector-Gold Plated		SGACP240002404			Au	7440-57-5	0.001	0.0006	0.000157	1.57
		MHF Connector-Ni Plated		SGACP240002406			Ni	7440-02-0	0.002	0.0011	0.000314	3.14
							无卤环氧树脂接着剂	24969-06-0	40	69.6000	19.8857	198857.14
		基板		SHAEC24000428805			聚亚酰胺膜	25038-81-7	12.75	22.1850	6.3386	63385.71
							銅箔	7440-50-8	45.8	79.6920	22.7691	227691.43
							phenolic epoxy resin	9003-36-5	0.500	0.8700	0.2486	2485.71
							A phenolic epoxy resin (NPCN-704)	29690-82-2	0.060	0.1044	0.0298	298.29
							acrylic ester ( DPHA)	29570-58-9	0.100	0.1740	0.0497	497.14
		Black ink		TAOEC2306819101			Barium sulfate	7727-43-7	0.040	0.0696	0.0199	198.86
							Defoaming agent	63148-62-9	0.080	0.1392	0.0398	397.71
3	FPCB		ZHINENG		174	49.71%	Silicon Dioxide	7631-86-9	0.020	0.0348	0.0099	99.43
							Carbon black (MA-100)	1333-86-4	0.010	0.0174	0.0050	49.71
							Dibasic Ester (DBE)	95481-62-2	0.090	0.1566	0.0447	447.43
							Ethylene Oxide	75-21-8	0.001	0.0017	0.0005	4.97
		White ink		TAOEC2307419101			Hydrocarbons, C26-55, aromrich	97722-04-8	0.006	0.0104	0.0030	29.83
							Bariumsulfate	7727-43-7	0.050	0.0870	0.0249	248.57
							SILICA	14808-60-7	0.043	0.0748	0.0214	213.77
							Benzimidqzole	51-17-2	0.020	0.0348	0.0099	99.43
		OSP		(8824)054-0003			Formic Acid	64-18-6	0.040	0.0696	0.0199	198.86
							ID Water	7732-18-5	0.39	0.6786	0.1939	1938.86
							Adhesive	-	45.00	0.4500	0.1286	1285.71
4	背膠	3M 9448A	JUNZHAN	CANEC24002135402	1.0000	0.29%	PAPER LINER	-	50.00	0.5000	0.1429	1428.57
				tti wt =	250 0000		Tissue	-	5.00	0.0500	0.0143	142.86
Appro	ved by (核准): 何四春	!		tu wt =	350.0000	mg	Reviewed by (書)	査): 白玉俠				

Approved by (核能): 何四春

(A) Element Wt Composition is derived from MSDS and/or material C of C from Vendors
(B) Wt of silver spotted on leadframe is estimated.

(C) Component Weight is based on assembly of generic parts.



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