

Test Report Date: 27 Jan 2022 Page 5 of 14 No. NGBML2200124301

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

	ī	T		T	1
	Category 1	Catego	ory 2	Catego	ry 3
Parameter	Materials, that are destined in mouth closed or material in toys according to Directive 2009/48 EC or materials in articles for use by	Materials not co category 1, with contact to skin le seconds (long-te contact) or repe term skin contact or foreseeable u	foreseeable onger than 30 erm skin ated short ot at intended	Materials that d category 1 or 2, foreseeable con up to 30 second term skin conta intended or fore use	with ntact to skin ds (short- ct) at
	children up to 3 years with longer term according to skin contact (longer than 30s) at intended use	Used by Children (<14 years)	Other Consumer Products	Used by Children (<14 years)	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

Phthalates

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

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Test Report	No. NGBML220012	4301	Date: 27	7 Jan 2022	Page 6 of 14
<u>Test Item(s)</u> Di-n-octyl Phthalate (DNOP)	<u>CAS NO.</u> 117-84-0	<u>Unit</u> %	<u>MDL</u> 0.003	<u>001</u> ND	
Diisodecyl Phthalate (DIDP)	26761-40-0/68515 -49-1	%	0.01	ND	
Diisononyl Phthalate (DINP)	28553-12-0/68515 -48-0	%	0.01	ND	



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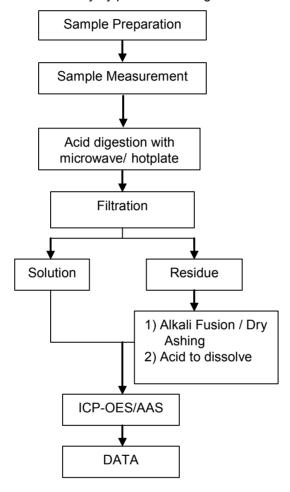
No. NGBML2200124301

Page 7 of 14 Date: 27 Jan 2022

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Elements (IEC62321) Testing Flow Chart

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



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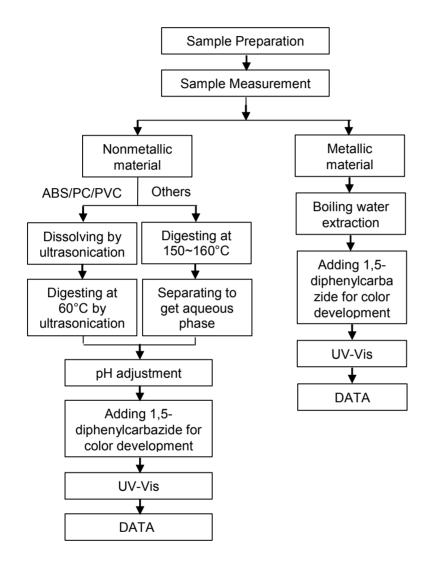
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Test Report No. NGBML2200124301 Date: 27 Jan 2022 Page 8 of 14

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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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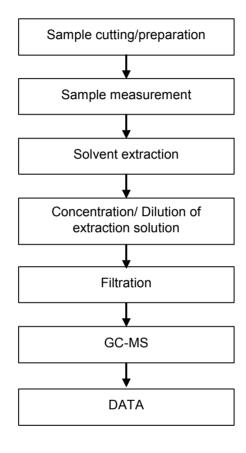
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Date: 27 Jan 2022

Page 9 of 14

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PBBs/PBDEs Testing Flow Chart





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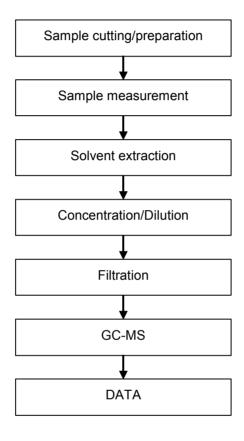
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Date: 27 Jan 2022

Page 10 of 14

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Phthalates Testing Flow Chart





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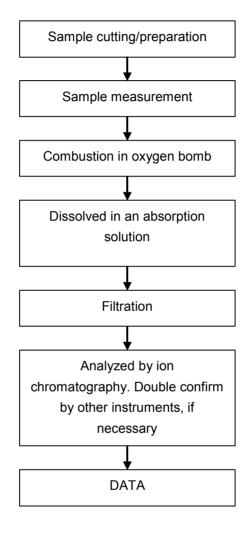
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Page 11 of 14

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Halogen Testing (oxygen bomb) Flow Chart





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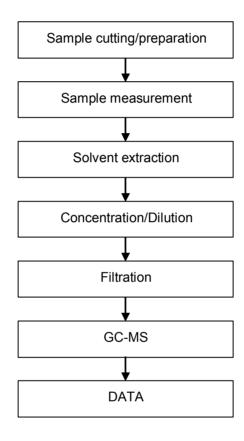
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Page 12 of 14

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PAHs Testing Flow Chart





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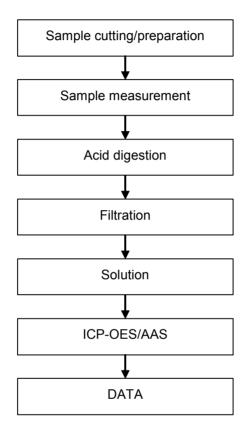
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Page 13 of 14

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Elements Testing Flow Chart





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Test Report No. NGBML2200124301 Date: 27 Jan 2022 Page 14 of 14

Sample photo:



SGS authenticate the photo on original report only

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Test Report No. HKTEC2102511709 Date: 11 Jun 2021 Page 1 of 12

DAINICHISEIKA COLOR & CHEMICALS MFG. CO., LTD.

7-6, BAKUROCHO 1-CHOME, NIHONBASHI CHUO-KU TOKYO 103-8383 JAPAN

The following sample(s) was/were submitted and identified on behalf of the clients as: FCM H 1372 BLACK

SGS Job No.: 4834626 - HK

Lot No. : 16212112 Country of Origin : JAPAN

Date of Sample Received: 31 May 2021

Testing Period: 31 May 2021 - 11 Jun 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Based on the performed tests on submitted samples, the test results do not exceed the limit as set by the requirement of European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers

identified (α-HBCDD, β-HBCDD, γ-HBCDD).

Based on the performed tests on submitted sample(s), the test results do not exceed the limit as set by European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances.

PFOS and its derivatives.

Signed for and on behalf of SGS Hong Kong Limited.

Wong Ka Ming, Polly Chemist

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No. HKTEC2102511709

Date: 11 Jun 2021

Page 2 of 12

Test Results:

Test Part Description:

Specimen	SGS Sample ID	Description
No.		
1	HKT21-025117.009	Black plastic pellet

Remarks:

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, Hg analyzer, UV-Vis and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	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	1,000	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
Pentabromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. HKTEC210251	1709	Date: 11	Jun 2021	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>	
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	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25

Halogen

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Fluorine (F)	-	mg/kg	50	270000
Chlorine (CI)	-	mg/kg	50	ND
Bromine (Br)	-	mg/kg	50	ND
lodine (I)	-	mg/kg	50	ND

Notes:

(1) The measurement report of the expanded uncertainty with confident level 95% by coverage factor k=2, is 20% for each analyte of Fluorine, Chlorine, Bromine and Iodine.

European Regulation POPs (EU) 2019/1021 – Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to SGS inhouse method-CTS-SL-235-1, analysis was performed by GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Hexabromocyclododecane (HBCDD) and all major	100	mg/kg	10	ND
diastereoisomers identified (α-HBCDD, β-HBCDD,				
γ-HBCDD)				

Conclusion PASS

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No. HKTEC2102511709

Date: 11 Jun 2021

Page 4 of 12

<u>European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances, PFOS and its derivatives</u>

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	CAS NO	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Perfluorooctanoic acid (PFOA)		0.025	mg/kg	0.010	ND
and its salts+					
PFOA-related substances		1	mg/kg	-	ND
1H,1H,2H,2H-Perfluoro-1-	39108-34-4	-	mg/kg	1	ND
decanol (8:2 FTS)			_		
Methyl perfluorooctanoate	376-27-2	-	mg/kg	1	ND
(Me-PFOA)	0.400.04.5				
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	mg/kg	1	ND
1H,1H,2H,2H-Perfluoro-1-	678-39-7	_	mg/kg	1	ND
decanol (8:2 FTOH)	070 00 7		mg/ng	•	110
1H,1H,2H,2H-Perfluorodecyl	27905-45-9	_	mg/kg	1	ND
acrylate (8:2 FTA)					
1H,1H,2H,2H-Perfluorodecyl	1996-88-9	_	mg/kg	1	ND
methacrylate (8:2 FTMA)			0 0		
Perfluoro-1-iodooctane (PFOI)	507-63-1	-	mg/kg	1	ND
Perfluorooctane sulfonates		1,000	mg/kg	-	ND
(PFOS) and its derivatives					
Perfluorooctane sulfonates	1763-23-1	-	mg/kg	1	ND
(PFOS) [^]					
N-ethylperfluoro-1-	4151-50-2	-	mg/kg	1	ND
octanesulfonamide (EtFOSA)					
N-methylperfluoro-1-	31506-32-8	-	mg/kg	1	ND
octanesulfonamide (MeFOSA)					
2-(N-ethylperfluoro-1-	1691-99-2	-	mg/kg	1	ND
octanesulfonamido)-ethanol					
(EtFOSE)			_		
2-(N-methylperfluoro-	24448-09-7	-	mg/kg	1	ND
1-octanesulfonamido) -ethanol					
(MeFOSE)					
Perfluorooctane sulfonamide (PFOSA)	754-91-6	-	mg/kg	1	ND
Conclusion					PASS
Outousion					1- AUU

Notes:

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8),

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Test Report No. HKTEC2102511709 Date: 11 Jun 2021 Page 5 of 12

PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS refer to its derivatives including 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), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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No. HKTEC2102511709 Date: 11 Jun 2021 Page 6 of 12

Appendix 1

Category	Decision Rule Statement
1	The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, w = U95) in ILAC-G8:09/2019 Clause 4.2.3. A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.". B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%.". C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%.". D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.
2	The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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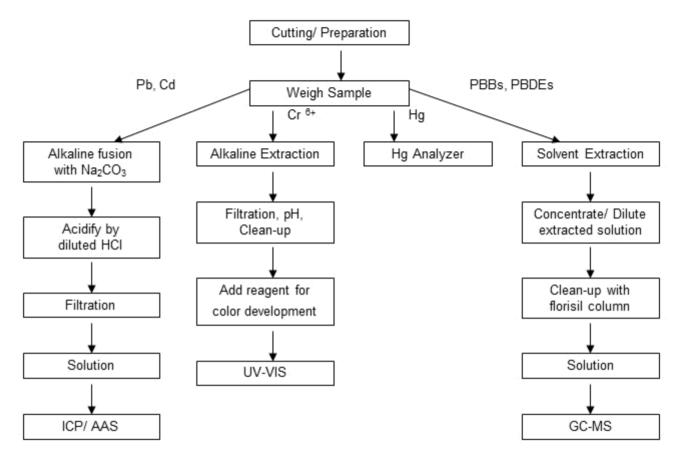


No. HKTEC2102511709

Date: 11 Jun 2021

Page 7 of 12

Flowchart:



Note: 1) The polymeric samples were dissolved totally by pre-conditioning method according to above flow chat for Cd and Pb contents analysis

Operator :	Chiu Kan Yuen (Alkaline Fusion)	
	Alex Yip (Hg Analyzer)	_
	Nick Liu (Hexavalent Chromium)	_
	Kent Wan (PBBs and PBDEs)	
Section Chief :	Chan Chun Kit (Dickson Chan)	

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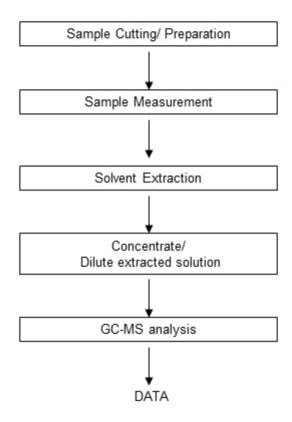
No. HKTEC2102511709

Date: 11 Jun 2021

Page 8 of 12

Flowchart for Phthalates measurement

Method: IEC 62321-8:2017



Tested by : Checked by : Lumpy Lee Edmund Kwan

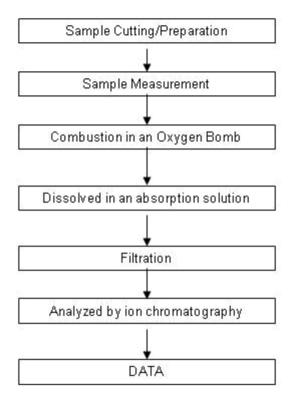
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No. HKTEC2102511709 Date: 11 Jun 2021 Page 9 of 12

Flowchart for Halogen Free Test

Method: BS EN14582:2016



Operator:

Tang Ying Sam

Supervisor:

Chan Chun Kit (Dickson)

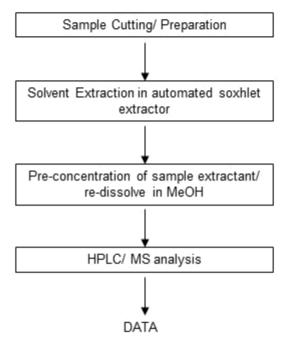
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No. HKTEC2102511709 Date: 11 Jun 2021 Page 10 of 12

Flowchart for PFOS/ PFOA measurement

Method: CEN/TS15968:2010



 Operator :
 Candy Luk

 Chief Supervisor :
 Yu Ka Lai

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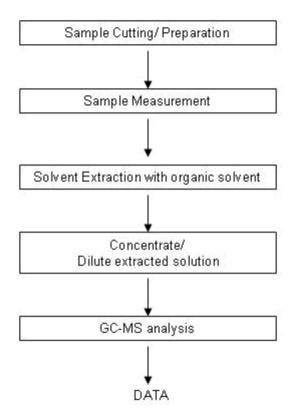
No. HKTEC2102511709

Date: 11 Jun 2021

Page 11 of 12

Flowchart for HBCDD measurement

Method: In-house Method



Tested by : Checked by : Tang Sze Hon, Gary Fok Chi Shan

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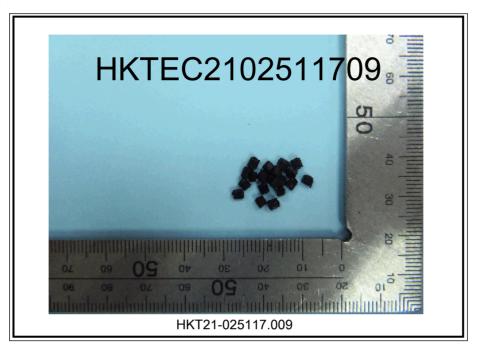


Sample photo:

No. HKTEC2102511709 Date: 11

Date: 11 Jun 2021

Page 12 of 12



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Company Name

Report No.

BAOTOUZHENXIONGCOPPER CO.,LTD

shown on Report

NNER MONGOLIA BAOTOU RARE EARTH HIGH-TECH INDUSTROAL PARK **Address**

OF HOPE

A2210461380101001

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

of the applicant

Sample Name TIN PLATING ROUND COPPER WIRE

Sample Received Date Nov. 5, 2021

Testing Period Nov. 5, 2021 to Nov. 10, 2021

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), **Test Requested**

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),

Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

Test Method Please refer to the following page(s). Please refer to the following page(s). Test Result(s)

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

entipesting Testing Berattional Pinbiao (Shanghai) Co., Ltd.

Chen kaimin Lab Manager Reviewed by

Date

Nov. 10, 2021

No. T172794287

No.1351, Wanfang Road, Minhang District, Shanghai, China



Report No. A2210461380101001 Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Fluorine (F)	Refer to EN 14582:2016	IC
Chlorine (Cl)	Refer to EN 14582:2016	IC
Bromine (Br)	Refer to EN 14582:2016	IC
Iodine (I)	Refer to EN 14582:2016	IC

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Report No. A2210461380101001

Page 3 of 7

Test Result(s)

Tested Item(s)	Result	MDL	Limit
Lead(Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury(Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	N.D. ▼	0.10 μg/cm ² (LOQ)	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	



Report No. A2210461380101001

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL		Limit
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg		1000 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg		1000 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg		1000 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg		1000 mg/kg
Tested Item(s)	Result			MDL
Fluorine(F)	N.D.		10 mg/kg	
Chlorine(Cl)	N.D.			10 mg/kg
Bromine(Br)	N.D.			10 mg/kg
Iodine(I)	N.D.			10 mg/kg

Sample/Part Description

Metal wire with silvery plating

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -1000 mg/kg = 0.1%
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu g/cm^2$
- - $^{\blacktriangledown}$ The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μ g/cm². The coating is considered a non-Cr(VI) based coating.

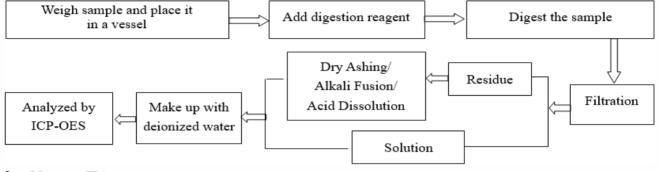
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



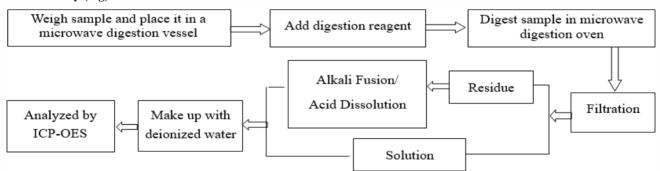
Report No. A2210461380101001 Page 5 of 7

Test Process

1. Lead (Pb), Cadmium (Cd)

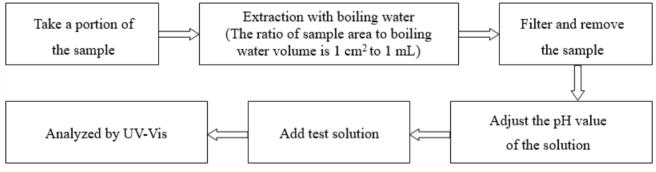


2. Mercury (Hg)

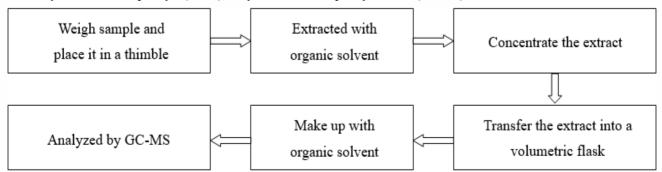


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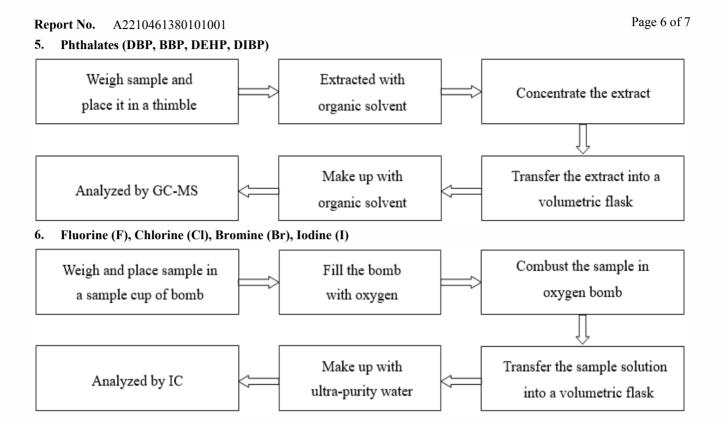
3. Hexavalent Chromium (Cr(VI))



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









Report No. A2210461380101001

Page 7 of 7

Photo(s) of the sample(s)



Statement:

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

*** End of report ***







报告编号 A2210437437101005E Report No. A2210437437101005E 第1页 共7页

Page 1 of 7

报告抬头公司名称 东莞市煜春塑料科技有限公司

Company Name DONG GUAN YU CHUN PLASTICS TECHNOLOGY CO;LTD

shown on Report

地 址 东莞市常平镇桥沥村北门工业区190号

Address BEIMEN VILLAGE INDUSTRIAL , QIAOLI ,CHANGPING TOWN,DONGGUAN

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 FR8330A Sample Name FR8330A

材料名称 PBTGF+15%VO.BK/PBTGF+30%VO.BK Material PBTGF+15%VO.BK/PBTGF+30%VO.BK

样品接收日期 2021.10.22 Sample Received Date Oct. 22, 2021

样品检测日期 2021.10.22-2021.10.26

Testing Period Oct. 22, 2021 to Oct. 26, 2021

检测要求 根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价

铬(Cr(VI)),多溴联苯(PBBs),多溴二苯醚(PBDEs),邻苯二甲酸酯(DBP,

BBP, DEHP, DIBP)进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent

Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

检测依据/检测结果 请参见下页。

Test Method/Test Result(s) Please refer to the following page(s).





行步說

郑晴涛

技术经理 Technical Manager

正集团股份有限公司

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軍 核
Reviewed by
日 期

Date

王婷

2021.10.26

No. R158921589

广东省深圳市宝安区新安街道兴东社区华测检测大楼

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Test Report

报告编号 A2210437437101005E **Report No.** A2210437437101005E

第2页 共7页

Page 2 of 7

检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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Test Report

报告编号 A2210437437101005E **Report No.** A2210437437101005E

第3页 共7页

Page 3 of 7

检测结果 Test Result(s)

位测结果 Test Result(s)		
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴联苯 Polybrominated Biphenyls (PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴二苯醚 Polybrominated Diphenyl Ethers (PI	BDEs)	1
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg
		<u> </u>



Test Report

报告编号 A2210437437101005E Report No. A2210437437101005E 第4页 共7页

Page 4 of 7

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)				
邻苯二甲酸二丁酯 Dibutyl phthalate	N.D.	50 mg/kg		
(DBP)				
CAS#:84-74-2				
邻苯二甲酸丁基苄基酯 Butyl benzyl	N.D.	50 mg/kg		
phthalate (BBP)				
CAS#:85-68-7				
邻苯二甲酸二(2-乙基)己酯 Di-	N.D.	50 mg/kg		
(2-ethylhexyl) phthalate (DEHP)				
CAS#:117-81-7				
邻苯二甲酸二异丁酯 Diisobutyl	N.D.	50 mg/kg		
phthalate (DIBP)				
CAS#:84-69-5				

样品/部位描述

黑色塑料颗粒

Sample/Part Description

Black plastic grains

备注:

对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (< MDL)

-mg/kg = ppm = parts per million



Test Report

报告编号 A2210437437101005E **Report No.** A2210437437101005E

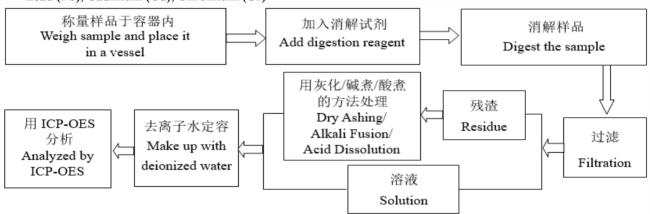
第5页 共7页

Page 5 of 7

检测流程 Test Process

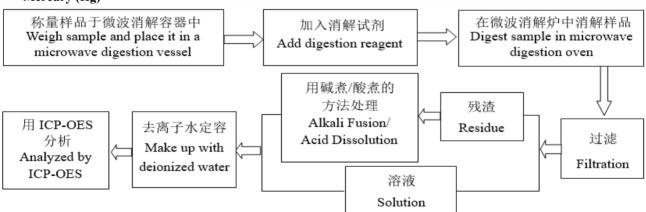
1. 铅(Pb),镉(Cd),铬(Cr)

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



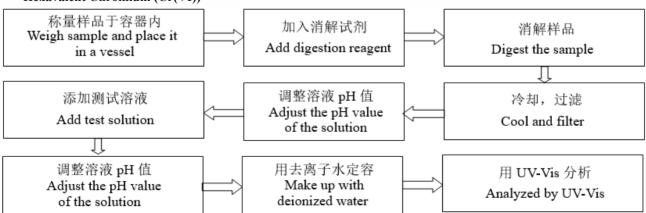
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))





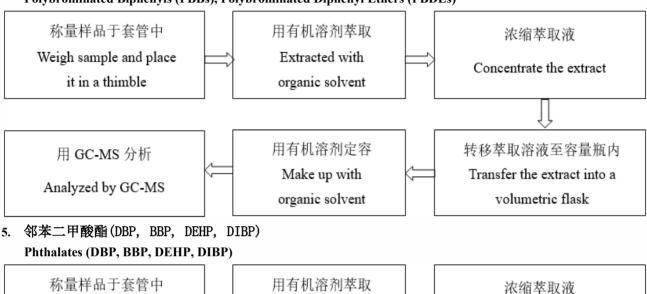
Test Report

报告编号 A2210437437101005E Report No. A2210437437101005E 第6页 共7页

Page 6 of 7

4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

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





CTI华测检测

检测报告 Test Report

报告编号 A2210437437101005E Report No. A2210437437101005E 第 7 页 共 7 页 Page 7 of 7

样品图片 Photo(s) of the sample(s)



声明Statement:

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This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. 报告拍头公司名称及地址、样品及样品信息由申请者提供,申请者应对其真实性负责,CTI未核实其 真实性;

The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 未经CTI书面同意,不得部分复制本报告;

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5. 如检测报告中的英文内容与中文内容有差异,以中文为准。

In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

报告结束

*** End of report ***



Test Report No: 10522551(1) Date: 09-Sep-2021 Page 1 of 5

I-Pex Singapore Pte Ltd 55 Yishun Industrial Park A Singapore 768728

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

Sample Name : D line Au

Sample Receiving Date : 01-Sep-2021

Testing Period : 01-Sep-2021 to 09-Sep-2021

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II.

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

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

Y.C. Tham

Technical Manager, Multi-Lab



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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Co. Reg. No: 199404065N GST Reg. No: MR-8500112-9 Member of SGS Group



Test Report No: 10522551(1) Date: 09-Sep-2021 Page 2 of 5

Test Result(s):

Sample Description : Gold coloured flakes

Test Item(s):	Unit	Method	Results	MDL	RoHS Limit
Cadmium(Cd)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	17.5	2	1000
Mercury (Hg)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	n.d.	2	1000
Hexavalent Chromium (Cr(VI)) #	μg/cm2	With reference to IEC62321-7-1 :2015. Analysis was performed by UV-Vis Spectrometry.	n.d.	0.1	-

Note: (1) mg/kg = ppm; 0.1wt% = 1000ppm

(2) n.d.= Not Detected

(3) MDL = Method Detection Limit

(4) "-" = Not regulated(5) *: Exceeds limit

(6) # = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm2.

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 0.10μg/cm2.

The coating is considered a non-Cr(VI) based coating

c. The result between 0.10µg/cm2 and 0.13µg/cm2 is considered to be inconclusive

- unavoidable coating variations may influence the determination

Remarks: Sample received was totally dissolved by preconditioning methods.

Lab Analyst(s): AQ and Joela

Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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Test Report No: 10522551(1) Date: 09-Sep-2021 Page 3 of 5

Sample photo:

Sample Description : Gold coloured flakes

SGS authenticate the photo on original report only



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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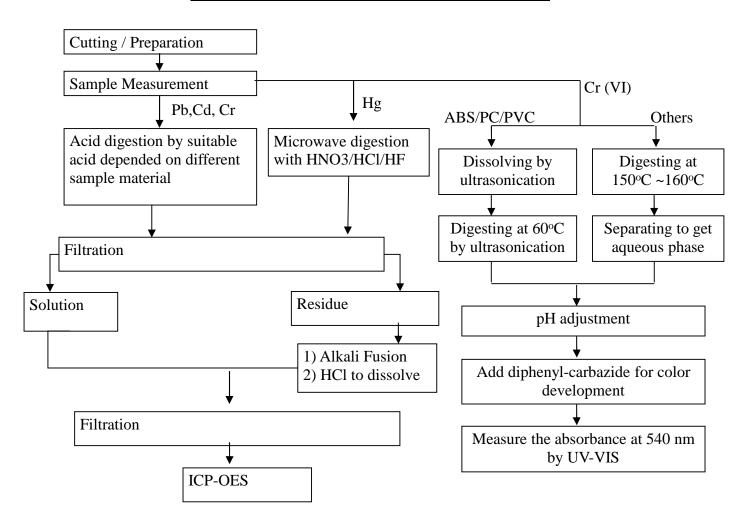
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Test Report No: 10522551(1) Date: 09-Sep-2021 Page 4 of 5

Process Flow of IEC 62321 (Pb, Cd, Hg, Cr & Cr(VI))



Remarks: Sample received was totally dissolved by preconditioning method. (CrVI method excluded)

Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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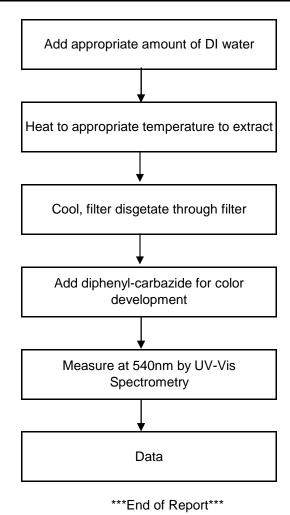
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Test Report No: 10522551(1) Date: 09-Sep-2021 Page 5 of 5

Process Flow of Cr(VI) by Boiling Water Extraction (IEC62321)



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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Test Report No: 10522551(2) Date: 09-Sep-2021 Page 1 of 5

I-Pex Singapore Pte Ltd 55 Yishun Industrial Park A Singapore 768728

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

Sample Name : D line Ni

Sample Receiving Date : 01-Sep-2021

Testing Period : 01-Sep-2021 to 09-Sep-2021

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II.

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

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

Y.C. Tham

Technical Manager, Multi-Lab



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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Test Report No: 10522551(2) Date: 09-Sep-2021 Page 2 of 5

Test Result(s):

Sample Description : Silver coloured flakes

Test Item(s):	Unit	Method	Results	MDL	RoHS Limit
Cadmium(Cd)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC62321-5 :2013. Analysis was performed by ICP/OES	n.d.	2	1000
Hexavalent Chromium (Cr(VI)) #	μg/cm2	With reference to IEC62321-7-1 :2015. Analysis was performed by UV-Vis Spectrometry.	n.d.	0.1	-

Note: (1) mg/kg = ppm; 0.1wt% = 1000ppm

(2) n.d.= Not Detected

(3) MDL = Method Detection Limit

(4) "-" = Not regulated(5) *: Exceeds limit

(6) # = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm2.

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 0.10μg/cm2.

The coating is considered a non-Cr(VI) based coating

c. The result between 0.10µg/cm2 and 0.13µg/cm2 is considered to be inconclusive

- unavoidable coating variations may influence the determination

Remarks: Sample received was totally dissolved by preconditioning methods.

Lab Analyst(s): AQ and Joela

Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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Test Report No: 10522551(2) Date: 09-Sep-2021 Page 3 of 5

Sample photo:

Sample Description : Silver coloured flakes

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Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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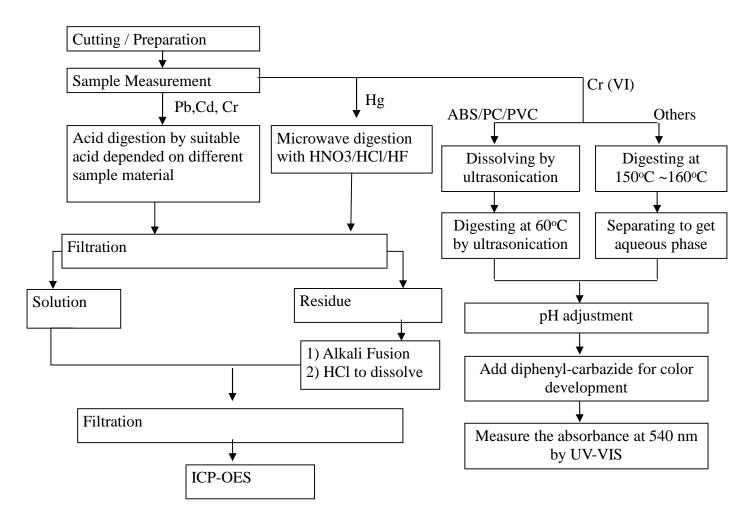
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Test Report No: 10522551(2) Date: 09-Sep-2021 Page 4 of 5

Process Flow of IEC 62321 (Pb, Cd, Hg, Cr & Cr(VI))



Remarks: Sample received was totally dissolved by preconditioning method. (CrVI method excluded)

Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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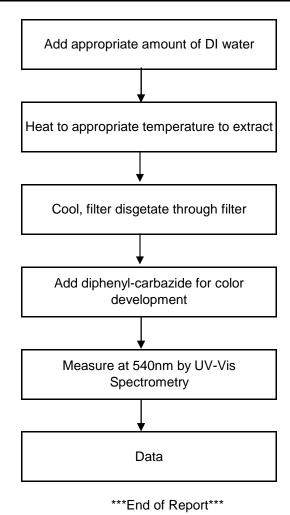
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Co. Reg. No: 199404065N GST Reg. No: MR-8500112-9



Test Report No: 10522551(2) Date: 09-Sep-2021 Page 5 of 5

Process Flow of Cr(VI) by Boiling Water Extraction (IEC62321)



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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No.: ETR21803360M01 Date: 02-Sep-2021

Page: 1 of 4

JX NIPPON MINING & METALS CORPORATION
3 KURAMI, SAMUKAWA, KOZA, KANAGAWA 253-0101, JAPAN

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

Sample Submitted By : JX NIPPON MINING & METALS CORPORATION

Sample Name : COPPER ALLOY

Style/Item No. : C5191

Sample Receiving Date : 16-Aug-2021

Testing Period : 16-Aug-2021 to 02-Sep-2021

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.





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No.: ETR21803360M01 Date: 02-Sep-2021

JX NIPPON MINING & 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) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis	mg/kg	2	n.d.
Lead (Pb) (CAS No.: 7439-92-1)	was performed by ICP-OES.	mg/kg	2	15.2
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1:	mg/kg	2	n.d.
	2017, analysis was performed by ICP-OES.			
Hexavalent Chromium Cr(VI) (CAS	With reference to IEC 62321-7-1: 2015, analysis	μg/cm²	0.1	n.d.
No.: 18540-29-9) (#2)	was performed by UV-VIS.			

Note:

- 1. mg/kg = ppm; 0.1wt% = 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 $\mu g/cm^2$. 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 μ g/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
- 5. This is the additional test report of ETR21803360.

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Page: 2 of 4

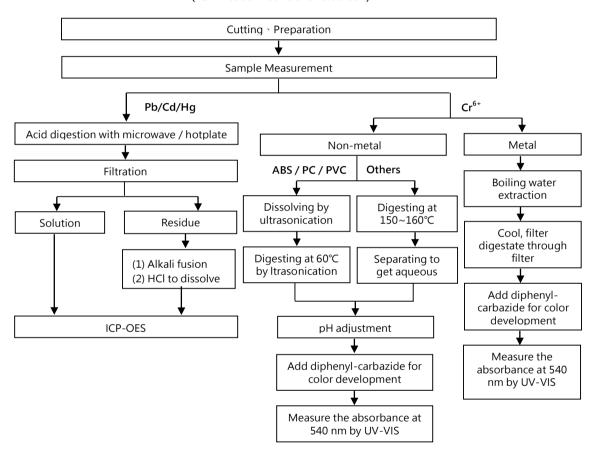


No.: ETR21803360M01 Date: 02-Sep-2021

JX NIPPON MINING & 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^{6+} test method excluded)



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Page: 3 of 4



No.: ETR21803360M01

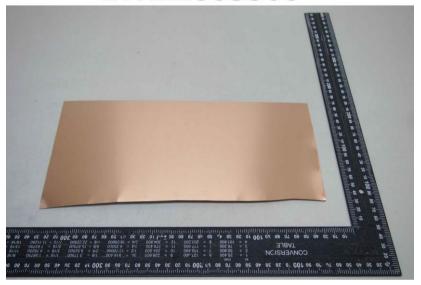
Date: 02-Sep-2021

Page: 4 of 4

JX NIPPON MINING & 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. *

ETR21803360



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Test Report No. SHAEC2118728901 Date: 04 Sep 2021 Page 1 of 8

3M CHINA LIMITED 222 TIANLIN ROAD, SHANGHAI

The following sample(s) was/were submitted and identified on behalf of the clients as: 3M 467MP

SGS Job No.: SP21-027405 - SH

Model No.: 3M 467MP

Client Ref. Information: 3M 468MP, 3M 467MC, 3M 468MC, 3M 467MPF, 3M 468MPF

Date of Sample Received: 30 Aug 2021

Testing Period: 30 Aug 2021 - 04 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 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-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dora Hu

Approved Signatory





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Test Report No. SHAEC2118728901 Date: 04 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SHA21-187289.001 Colorless transparent adhesive film

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, 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. SHAEC21187289	01	Date: (04 Sep 2021	Page 3 of 8
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	
Di-2-Ethyl Hexyl 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. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) 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.



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No. SHAEC2118728901

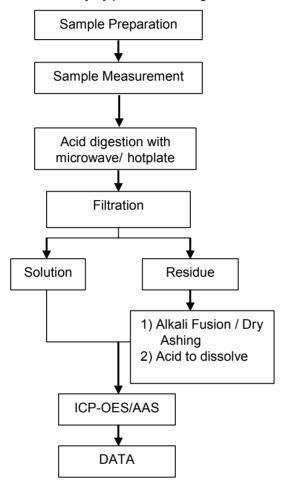
Page 4 of 8

Date: 04 Sep 2021

ATTACHMENTS

Elements (IEC62321) Testing Flow Chart

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





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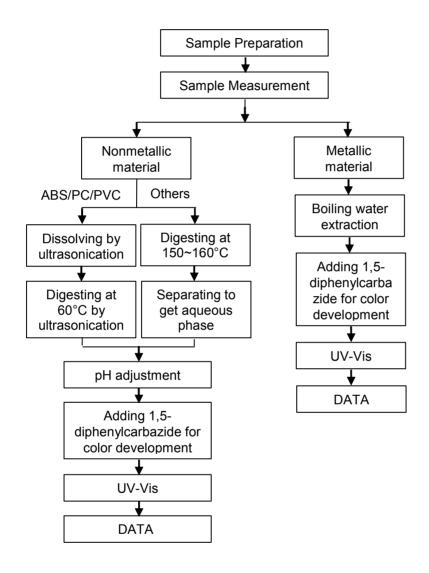
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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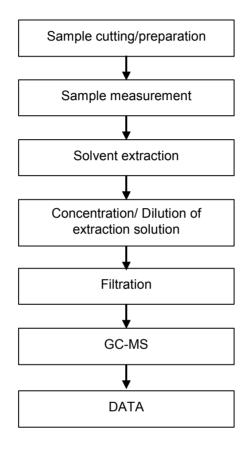
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PBBs/PBDEs Testing Flow Chart





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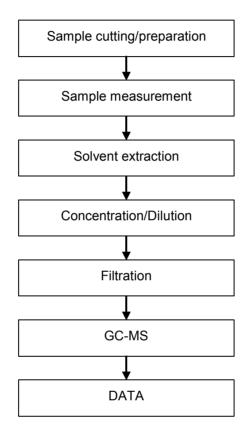
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Date: 04 Sep 2021

Phthalates Testing Flow Chart





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No. SHAEC2118728901

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Date: 04 Sep 2021

Sample photo:



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Test Report No. SHAEC2118728903 Date: 04 Sep 2021 Page 1 of 4

3M CHINA LIMITED 222 TIANLIN ROAD, SHANGHAI

The following sample(s) was/were submitted and identified on behalf of the clients as: 3M 467MP

SP21-027405 - SH SGS Job No.:

Model No.: 3M 467MP

Client Ref. Information: 3M 468MP, 3M 467MC, 3M 468MC, 3M 467MPF, 3M 468MPF

Date of Sample Received: 30 Aug 2021

30 Aug 2021 - 04 Sep 2021 Testing Period:

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

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

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



Test Method:

Approved Signatory





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Test Report No. SHAEC2118728903 Date: 04 Sep 2021 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 SHA21-187289.001 Colorless transparent adhesive film

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

<u>Halogen</u>

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	136
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND



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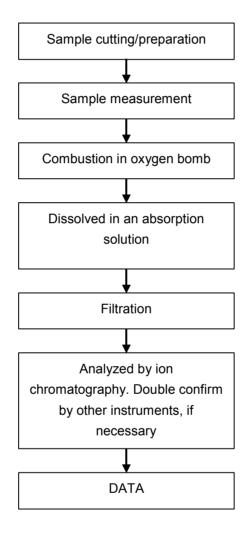
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Page 3 of 4

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ATTACHMENTS

Halogen Testing (oxygen bomb) Flow Chart





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报告编号 A2210079784101002E A2210079784101002E Report No.

第1页 共15页

Page 1 of 15

报告抬头公司名称 聯茂 (無錫) 電子科技有限公司

Company Name ITEQ(WUXI)ELECTRONIC TECHNOLOGIES CO.,LTD

shown on Report

妣 址 江蘇省無錫市錫山區東亭鎮春暉中路 3 號

Address NO.3 CHUN HUI MIDDLE ROAD, XISHAN ECONOMIC DEVELOPMENT

ZONE, WUXI CITY, JIANGSU PROVINCE

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 Sample Name 覆銅箔基板 样品型号 Part No. IT-258GA2TC 样品接收日期 2021.03.11 Sample Received Date Mar. 11, 2021

样品检测日期 2021.03.11-2021.03.17

Testing Period Mar. 11, 2021 to Mar. 17, 2021

检测依据/检测结果/检测要求 请参见下页。

Please refer to the following page(s). Test Method/Test Result(s)/ Test Requested

主 检 Tested

核 Reviewed by

徐忠娟

批 准 Approved by

期

2021.03.17

实验室经理 Lab Manager

No. R188381080

上海市闵行区万芳路 1351 号

No.1351, Wanfang Road, Minhang District, Shanghai, China

entre Testing International Pinbiao(Shanghai) Co., Ltd.



报告编号 A2210079784101002E Report No. A2210079784101002E 第 2 页 共 15 页 Page 2 of 15

检测要求

1.根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价铬(Cr(VI)),多溴联苯(PBBs),多溴二苯醚(PBDEs),砷(As),铍(Be),镍(Ni),锑(Sb),六溴环十二烷(HBCDD),氟(F),氯(Cl),溴(Br),碘(I),四溴双酚 A(TBBP-A),邻苯二甲酸酯,聚氯乙烯(PVC),全氟辛酸(PFOA),全氟辛烷磺酸(PFOS)进行测试。

2. 根据客户要求,对所提交样品中的氧化铍(BeO), 三氧化二锑(Sb₂O₃)进行 筛选测试。

Test Requested

1.As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Arsenic(As), Beryllium(Be), Nickel(Ni), Antimony(Sb), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Tetrabromobisphenol A (TBBP-A), Phthalates, Polyvinyl Chloride (PVC), Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).

2. As specified by client, to screen the Beryllium oxide(BeO), Antimonytrioxide (Sb_2O_3)in the submitted sample(s).



报告编号 A2210079784101002E Report No. A2210079784101002E 第 3 页 共 15 页 Page 3 of 15

检测依据 Test Method

位测仪指 Test Method 测试项目	测试方法	测试仪器
Tested Item(s)	Test Method	Measured Equipment(s)
		1 1
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
	IEC 62321-7-1:2015,	
N 14 15	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总	
六价铬(Cr(VI))	铬含量	UV-Vis/ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015,	
	IEC 62321-7-2:2017 and/or determination of Total	
	Chromium by IEC 62321-5:2013	
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
	参考 US EPA 3052:1996 & US EPA 6010D:2018	
砷 Arsenic(As)	Refer to US EPA 3052:1996 &	ICP-OES
	US EPA 6010D:2018	
	参考 US EPA 3052:1996 & US EPA 6010D:2018	
铍 Beryllium(Be)	Refer to US EPA 3052:1996 &	ICP-OES
	US EPA 6010D:2018	
	参考 US EPA 3052:1996 & US EPA 6010D:2018	
镍 Nickel(Ni)	Refer to US EPA 3052:1996 &	ICP-OES
	US EPA 6010D:2018	
	参考 US EPA 3052:1996 & US EPA 6010D:2018	
锑 Antimony(Sb)	Refer to US EPA 3052:1996 &	ICP-OES
	US EPA 6010D:2018	
	参考 US EPA 3550C:2007 &	
六溴环十二烷 Hexabromocyclododecane	US EPA 8270E:2017	
(HBCDD)	Refer to US EPA 3550C:2007 &	GC-MS
	US EPA 8270E:2017	
E	参考 EN 14582:2016	_
氟 Fluorine (F)	Refer to EN 14582:2016	IC
		1

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报告编号 A2210079784101002E Report No. A2210079784101002E 第 4 页 共 15 页 Page 4 of 15

测试项目	测试方法	测试仪器
Tested Item(s)	Test Method	Measured Equipment(s)
氯 Chlorine (Cl)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	参考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS/LC-MS
邻苯二甲酸酯 Phthalates(DMEP,DNHP,DPP,DIDP, DINP,DIPP,DNOP)	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS
三氧化二锑 Antimony trioxide (Sb ₂ O ₃)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
聚氯乙烯 Polyvinyl Chloride (PVC)	参考 JY/T 001-1996 Refer to JY/T 001-1996	FT-IR
氧化铍 Beryllium oxide (BeO)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
全氟辛酸(PFOA) Perfluorooctanoic Acid (PFOA)	参考 CEN/TS 15968:2010 Refer to CEN/TS 15968:2010	LC-MS-MS/LC-MS
全氟辛烷磺酸 (PFOS) Perfluorooctane Sulfonates (PFOS)	参考 CEN/TS 15968:2010 Refer to CEN/TS 15968:2010	LC-MS-MS/LC-MS

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg



报告编号 A2210079784101002E Report No. A2210079784101002E 第 5 页 共 15 页 Page 5 of 15

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴联苯 Polybrominated Biphenyls (P	(BBs)	
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL					
多溴二苯醚 Polybrominated Diphenyl I	多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)						
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg					
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg					
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg					
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg					
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg					
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg					
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg					
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg					
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg					
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg					



报告编号 A2210079784101002E Report No. A2210079784101002E

镍 Nickel (Ni)

测试项目 Tested Item(s)

锑 Antimony (Sb)

第 6 页 共 15 页 Page 6 of 15

2 mg/kg

方法检出限 MDL

10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL				
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)						
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg				
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg				
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg				
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg				
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL				
砷 Arsenic (As)	N.D.	10 mg/kg				
		T				
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL				
铍 Beryllium (Be)	N.D.	10 mg/kg				
		T				
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL				

27 mg/kg

结果 Result

N.D.



报告编号 A2210079784101002E Report No. A2210079784101002E 第 7 页 共 15 页 Page 7 of 15

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
氟 Fluorine (F)	440 mg/kg	10 mg/kg
氯 Chlorine (Cl)	182 mg/kg	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl	N.D.	50 mg/kg
phthalate (DNOP) CAS#:117-84-0	N.D.	
邻苯二甲酸二异壬酯 Di-isononyl		
phthalate (DINP)	N.D.	50 mg/kg
CAS#:28553-12-0,68515-48-0		
邻苯二甲酸二异癸酯 Di-iso-decyl		
phthalate (DIDP)	N.D.	50 mg/kg
CAS#:26761-40-0,68515-49-1		
邻苯二甲酸二戊酯 Dipentyl phthalate	ND	50
(DPP) CAS#:131-18-0	N.D.	50 mg/kg
邻苯二甲酸二己酯 Di-n-hexyl	N.D.	50 mg/kg
phthalate (DNHP) CAS#:84-75-3		

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报告编号 A2210079784101002E Report No. A2210079784101002E 第 8 页 共 15 页 Page 8 of 15

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二(2-甲氧基)乙酯		
Bis(2-methoxyethyl) phthalate (DMEP)	N.D.	50 mg/kg
CAS#:117-82-8		
邻苯二甲酸二异戊酯		
Diisopentylphthalate (DIPP)	N.D.	50 mg/kg
CAS#:605-50-5		

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
三氧化二锑 Antimony trioxide (Sb ₂ O ₃)*	N.D.	10 mg/kg
氧化铍 Beryllium oxide (BeO)*	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
聚氯乙烯 Polyvinyl Chloride (PVC)	阴性 Negative	/

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
全氟辛酸(PFOA)	N.D.	0.01 mg/kg
Perfluorooctanoic Acid (PFOA) 全氟辛烷磺酸 (PFOS)		
Perfluorooctane Sulfonates (PFOS)	N.D.	0.01 mg/kg

样品/部位描述 覆铜板

Sample/Part Description Cupreous clad laminate



报告编号 A2210079784101002E Report No. A2210079784101002E 第 9 页 共 15 页 Page 9 of 15

备注: 对于检测铅,镉,汞,砷,铍,镍,锑之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

-阴性表示不含有聚氯乙烯(PVC)

-*=该项目的检测结果由其特征元素的测试结果换算而来。

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic,

Beryllium, Nickel, Antimony.-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Not contained Polyvinyl Chloride (PVC)

-* = The test result of the item is converted from the test result of certain element.

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education,

internal quality control and product development etc.

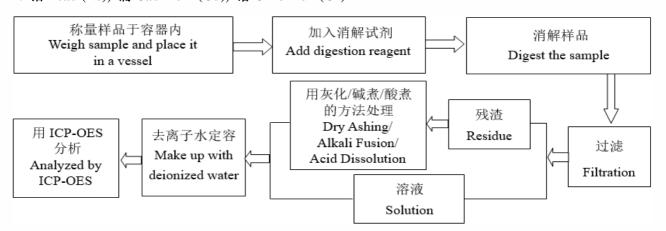
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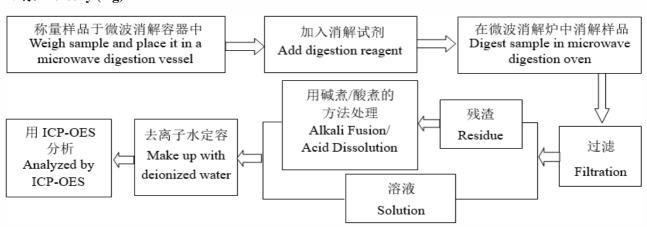
报告编号 A2210079784101002E Report No. A2210079784101002E 第 10 页 共 15 页 Page 10 of 15

检测流程 Test Process

1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium(Cr)



2. 汞 Mercury (Hg)



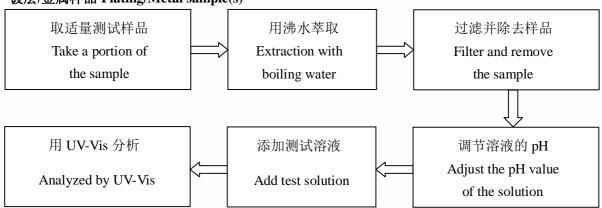


报告编号 A2210079784101002E Report No. A2210079784101002E 第 11 页 共 15 页 Page 11 of 15

3. 六价铬(Cr(VI)) Hexavalent Chromium (Cr(VI))

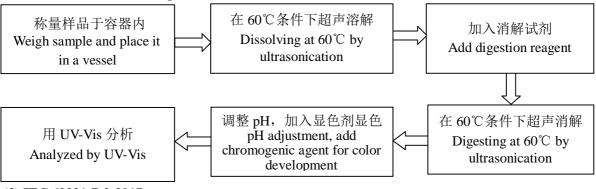
(1) IEC 62321-7-1:2015

镀层/金属样品 Plating/Metal sample(s)



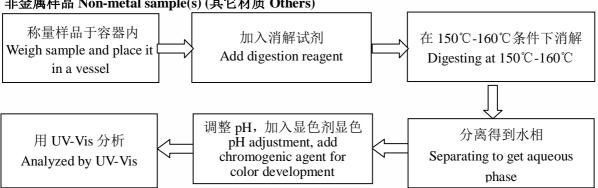
(2) IEC 62321-7-2:2017

非金属样品 Non-metal sample(s) (ABS/PC/PVC 材质 Material ABS/PC/PVC)



(3) IEC 62321-7-2:2017

非金属样品 Non-metal sample(s) (其它材质 Others)





报告编号 A2210079784101002E Report No. A2210079784101002E 第 12 页 共 15 页 Page 12 of 15

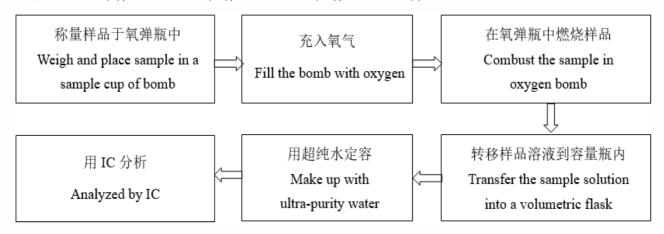
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



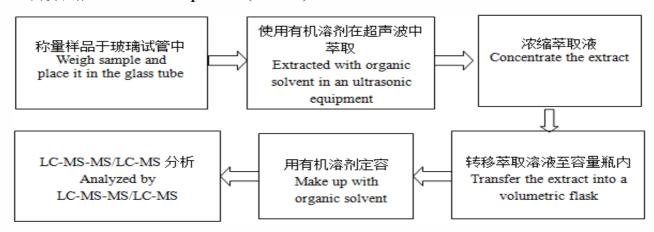


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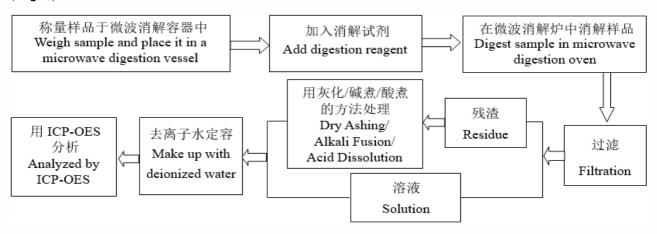
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 四溴双酚 A Tetrabromobisphenol A (TBBP-A)



9. 砷 Arsenic(As), 铍 Beryllium(Be), 镍 Nickel(Ni), 锑 Antimony(Sb), 三氧化二锑 Antimony trioxide (Sb₂O₃)

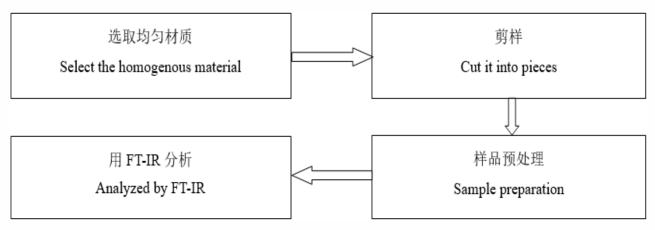




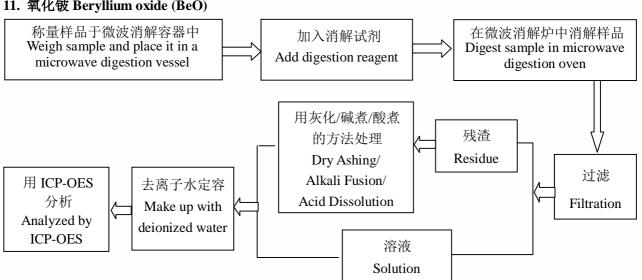
报告编号 A2210079784101002E A2210079784101002E Report No.

第 14 页 共 15 页 Page 14 of 15

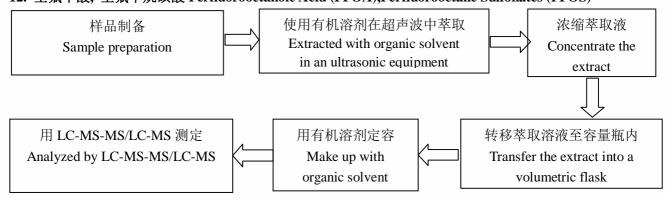
10. 聚氯乙烯 Polyvinyl Chloride (PVC)



11. 氧化铍 Beryllium oxide (BeO)



12. 全氟辛酸, 全氟辛烷磺酸 Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates (PFOS)





报告编号 A2210079784101002E Report No. A2210079784101002E 第 15 页 共 15 页 Page 15 of 15

样品图片

Photo(s) of the sample(s)



声明 Statement:

1.检测报告无批准人签字、"专用章"及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

2.报告抬头公司名称及地址、样品及样品信息由申请者提供,申请者应对其真实性负责, CTI 未核实其真实性;

The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3.本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4.未经 CTI 书面同意,不得部分复制本报告;

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5.如检测报告中的英文内容与中文内容有差异,以中文为准。

In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***

*** End of Report ***





报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 1 页 共 10 页 Page 1 of 10

报告抬头公司名称

新东方油墨有限公司

Company Name

NEWEAST PRINTING INK CO.,LTD

shown on Report

地 址 浙江桐乡市梧桐街道崇福大道2320号

Address 2320 CHONGFU AVENUE, TONGXIANG CITY, ZHEJIANG

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 油墨 Sample Name INK

样品型号 NSR-9000M1F/BK6 Part No. NSR-9000M1F/BK6

样品颜色黑色Colorblack样品接收日期2021.11.17

Sample Received Date
Nov. 17, 2021

样品检测日期 2021.11.17-2021.11.22

Testing Period Nov. 17, 2021 to Nov. 22, 2021

检测要求 根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价铬(Cr(VI)),多溴

联苯(PBBs), 多溴二苯醚(PBDEs), 氟(F), 氯(Cl), 溴(Br), 碘(I), 邻苯二甲酸酯进

行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent

Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates in the

submitted sample(s).

检测依据/检测结果 请参见下页。

Test Method/Test Result(s) Please refer to the following page(s).



审 核 Reviewed by

日 Date 徐忠娟

2021.11.22

No. R295829841

上海市闵行区万芳路1351号 No.1351, Wanfang Road, Minhang District, Shanghai, China



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 2 页 共 10 页 Page 2 of 10

检测依据 Test Method

型规则从为 Test Method		
测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试 总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
氟 Fluorine (F)	参考EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	参考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	参考EN 14582:2016 Refer to EN 14582:2016	IC
邻苯二甲酸酯 Phthalates(BBP,DEHP,DPhP,DBzP,DPrP,DBP,DCHP,DNHP,DMP,DNP,DPP,DEP,DIBP,DIDP,DIOP,DNOP)	参考EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 3 页 共 10 页 Page 3 of 10

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴联苯 Polybrominated Biphenyls (Pl	BBs)	·
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
多溴二苯醚 Polybrominated Diphenyl E	Cthers (PBDEs)	
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 4 页 共 10 页 Page 4 of 10

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL		
邻苯二甲酸酯 Phthalates (DBP, BBP, I	邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg		
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg		
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg		
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg		
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL		
氟 Fluorine (F)	290 mg/kg	10 mg/kg		
氯 Chlorine (Cl)	390 mg/kg	10 mg/kg		
溴 Bromine (Br)	N.D.	10 mg/kg		
碘 Iodine (I)	N.D.	10 mg/kg		



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 5 页 共 10 页 Page 5 of 10

位测结果 Test Result(s)			
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	
邻苯二甲酸酯 Phthalates			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg	
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg	
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg	
邻苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	50 mg/kg	
邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	50 mg/kg	
邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	50 mg/kg	
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP) CAS#:131-18-0	N.D.	50 mg/kg	
邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	50 mg/kg	
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	50 mg/kg	
邻苯二甲酸二壬酯 Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	50 mg/kg	



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 6 页 共 10 页 Page 6 of 10

检测结果 Test Result(s)

邻苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP) CAS#:84-75-3	N.D.	50 mg/kg
邻苯二甲酸二苄酯 Dibenzyl phthalate (DBzP) CAS#:523-31-9	N.D.	50 mg/kg
邻苯二甲酸二苯酯 Diphenyl phthalate (DPhP) CAS#:84-62-8	N.D.	50 mg/kg

样品/部位描述黑色固体Sample/Part DescriptionBlack solid

备注: 对于检测铅,镉,汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal

quality control and product development etc.

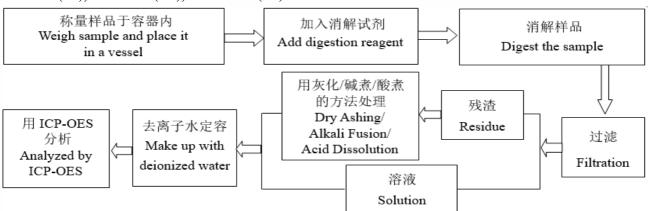


报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 7 页 共 10 页 Page 7 of 10

检测流程 Test Process

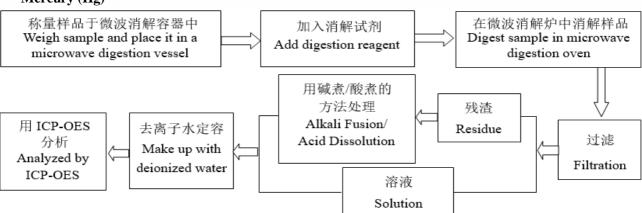
1. 铅(Pb), 镉(Cd), 铬(Cr)

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



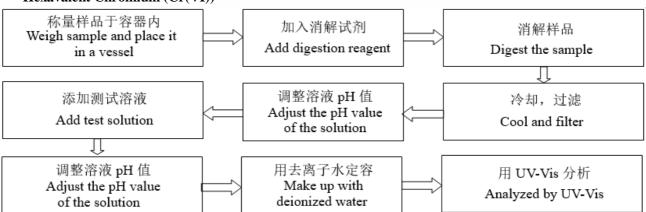
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))

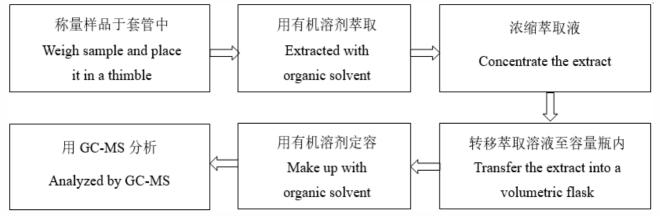




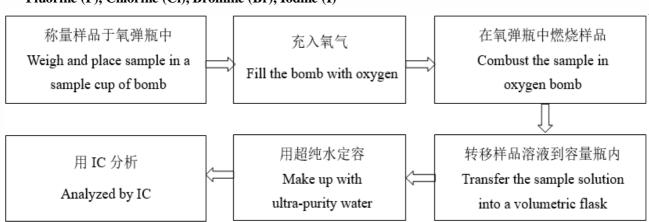
报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 8 页 共 10 页 Page 8 of 10

4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

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



5. 氟(F), 氯(Cl), 溴(Br), 碘(I) Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

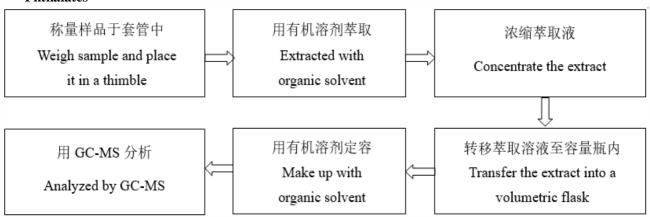




报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 9 页 共 10 页 Page 9 of 10

6. 邻苯二甲酸酯

Phthalates



Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



报告编号 A2210481408102001E **Report No.** A2210481408102001E 第 10 页 共 10 页 Page 10 of 10

样品图片 Photo(s) of the sample(s)



声明Statement:

- 1. 检测报告无批准人签字、"专用章"及报告骑缝章无效;
 - This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. 报告抬头公司名称及地址、样品及样品信息由申请者提供,申请者应对其真实性负责,CTI未核实其真实性;
 - The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. 本报告检测结果仅对受测样品负责;
 - The result(s) shown in this report refer(s) only to the sample(s) tested;
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报告结束
*** End of report ***



附录Appendix

客户参考信息Client Reference Information

NSR-9000M1/BK/ BK110/ BKM/ BK6M/ BK2/BK3/BK4/BK5/BK6
BKM2/FBK1T/FBK3/FBK5/FBK7/FBK9/FBK1/FBK2/FBK4/FBK6/FBK8/FBK10/ (F/BK)/ (F/BK3)/ (F/BK4)/ (F/BK5)/ (F/BK7)/ (F/BK8)/ (F/BK6) / (F/BK6) / (F/BK6) / (F/BK3M) / (F/BK6M) / (F/BK6M) / (F/BK7M) / (F/BK7M) / (F/BK8M)/(F/BK8M)/(F/BK5M)/(F/BK5M)/(F/BKM(HS-1))/(F/BKM(HS-2))/(F/BKM(HS-3))/(F/BKM(HS-5))/ (F/BKM(HS-6))/(F/BKM(HS-7))/(F/BKM(HS-8))/(F/BKM(HS-9))/(F/BKM(HS-11))/(F/BKM(HS-12))/ (F/BKM(HS-15))/(F/BKM(HS-18))/(F/BKM(HS-16))/(F/BKM)/ (AF/BKM) / (AF/BKM2) / PET5BK/PET5BKM/PET5BKM-1/PET5BKM-2/PET5BKM-3/PET5BKM-5/PET5BKM/NS-411/ BK/BK2 / (F/BK) /BKM/(NSR-9000M1/BK(NS-411))/(NSR-9000M1/BK2(NS-411))+NSR-9000H1(FH1)/ (NSR-9000H1F)/(NSR-9000H1R)/HD70(HF)

声明Statement:

- 1. 附录内容由申请者提供,申请者应对其真实性负责,CTI未核实其真实性。 The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. 附录内容为A2210481408102001E报告的补充。
 The Appendix Information is/are the supplement(s) for the Report A2210481408102001E.







中国认可 国际互认 检测 TESTING CNAS L4429



检测报告

Test Report

报告编号 A2210042522101009E Report No. A2210042522101009E 第 1 页 共 7 页

Page 1 of 7

苏州海川电子材料有限公司 报告抬头公司名称

Company Name shown on Report

地

SUZHOU HICHI EIECTRONIC MATERIAI.CO.,LTD.

苏州市相城区黄桥街道生田村工业坊路15号 址

NO.15 GONGYE FANG ROAD, SHENGTIAN VILLAGE, HUANGQIAO STREET, Address

XIANGCHENG DISTRICT, SUZHOU CITY

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 抗金有机保护剂

Sample Name Anti gold organic protective agent

样品型号 CuCoat HT (x) II CuCoat HT (x) II Part No.

样品颜色 无色液体 Color Colorless liquid 样品接收日期 2021.02.02 Sample Received Date Feb. 2, 2021

样品检测日期 2021.02.02-2021.02.06

Testing Period Feb. 2, 2021 to Feb. 6, 2021

检测要求 根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价

铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP,

BBP, DEHP, DIBP), 氟(F), 氯(C1), 溴(Br), 碘(I)进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent

Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl),

Bromine (Br), Iodine (I) in the submitted sample(s).

请参见下页。 检测依据/检测结果

Test Method/Test Result(s) Please refer to the following page(s).



技术经理 Technical Manager

限公司 Testing International(Suzhou) Co.,Ltd Reviewed by

 \mathbb{H} 期

Date

2021.02.06

No. R403807278

江苏省苏州市相城区澄阳路3286号

No.3286Chengyang Road, Xiangcheng District, Suzhou, Jiangsu



Test Report

报告编号 A2210042522101009E **Report No.** A2210042522101009E

第2页 共7页

Page 2 of 7

检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
氟 Fluorine (F)	参考EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	参考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	参考EN 14582:2016 Refer to EN 14582:2016	IC

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



Test Report

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第3页 共7页

Page 3 of 7

簡 Cadmium (Cd) N.D. 2 mg/kg 派 Mercury (Hg) N.D. 2 mg/kg 派 Mercury (Hg) N.D. 8 mg/kg 测试項目 Tested Item(s) 结果 Result 方法检出限 MDL 多溴联苯 Polybrominated Biphenyls (PBBs) 一溴联苯 Dibromobiphenyl N.D. 5 mg/kg 三溴联苯 Tibromobiphenyl N.D. 5 mg/kg 四溴联苯 Tetrabromobiphenyl N.D. 5 mg/kg 五溴联苯 Pentabromobiphenyl N.D. 5 mg/kg 九溴联苯 Hexabromobiphenyl N.D. 5 mg/kg 九溴联苯 Detabromobiphenyl N.D. 5 mg/kg 九溴联苯 Botabromobiphenyl N.D. 5 mg/kg 九溴联苯 Decabromobiphenyl N.D. 5 mg/kg 元溴苯醛 Polybrominated Diphenyl Ethers (PBDEs) 一溴二苯醛 Dibromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Dibromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybrominated Diphenyl Ethers (PBDEs) 「溴二苯醛 Dibromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybrominated Diphenyl Ethers (PBDEs) 「溴二苯醛 Tetrabromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybrominated Diphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybrominated Diphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromiophenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromiophenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromiophenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Polybromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Hexabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Hexabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Octabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Octabromodiphenyl ether N.D. 5 mg/kg	测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
求 Mcrcury (Hg) N.D. 2 mg/kg	铅 Lead (Pb)	N.D.	2 mg/kg
対解 Hexavalent Chromium (Cr(VI)) N.D. 8 mg/kg 測试項目 Tested Item(s) 结果 Result 方法检出限 MDL 多溴联苯 Polybrominated Biphenyls (PBBs) ――――――――――――――――――――――――――――――――――	镉 Cadmium (Cd)	N.D.	2 mg/kg
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一溴联苯 Monobromobiphenyl N.D. 5 mg/kg 二溴联苯 Dibromobiphenyl N.D. 5 mg/kg 三溴联苯 Tribromobiphenyl N.D. 5 mg/kg 四溴联苯 Tetrabromobiphenyl N.D. 5 mg/kg 四溴联苯 Pentabromobiphenyl N.D. 5 mg/kg 五溴联苯 Pentabromobiphenyl N.D. 5 mg/kg 大溴联苯 Hexabromobiphenyl N.D. 5 mg/kg 七溴联苯 Hexabromobiphenyl N.D. 5 mg/kg 九溴联苯 Octabromobiphenyl N.D. 5 mg/kg 九溴联苯 Octabromobiphenyl N.D. 5 mg/kg 九溴联苯 Decabromobiphenyl N.D. 5 mg/kg 刺试项目 Tested Item(s) 结果 Result 方法检出限 MDL 多溴二苯醛 Polybrominated Diphenyl Ethers (PBDEs) 一溴二苯醛 Monobromodiphenyl ether N.D. 5 mg/kg 三溴二苯醛 Tribromodiphenyl ether N.D. 5 mg/kg 三溴二苯醛 Tribromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Tetrabromodiphenyl ether N.D. 5 mg/kg 五溴二苯醛 Pentabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Hexabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Octabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Octabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醛 Octabromodiphenyl ether N.D. 5 mg/kg	测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
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四溴二苯醚 Tetrabromodiphenyl ether N.D. 5 mg/kg 五溴二苯醚 Pentabromodiphenyl ether N.D. 5 mg/kg 六溴二苯醚 Hexabromodiphenyl ether N.D. 5 mg/kg 七溴二苯醚 Heptabromodiphenyl ether N.D. 5 mg/kg 八溴二苯醚 Octabromodiphenyl ether N.D. 5 mg/kg 九溴二苯醚 Nonabromodiphenyl ether N.D. 5 mg/kg	二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
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	八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether N.D. 5 mg/kg	九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
	十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg



Test Report

报告编号 A2210042522101009E Report No. A2210042522101009E 第4页 共7页

Page 4 of 7

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
邻苯二甲酸酯 Phthalates (DBP, BBP, DF	EHP, DIBP)	·
邻苯二甲酸二丁酯 Dibutyl phthalate	N.D.	50 mg/kg
(DBP)		
CAS#:84-74-2		
邻苯二甲酸丁基苄基酯 Butyl benzyl	N.D.	50 mg/kg
phthalate (BBP)		
CAS#:85-68-7		
邻苯二甲酸二(2-乙基)己酯 Di-	N.D.	50 mg/kg
(2-ethylhexyl) phthalate (DEHP)		
CAS#:117-81-7		
邻苯二甲酸二异丁酯 Diisobutyl	N.D.	50 mg/kg
phthalate (DIBP)		
CAS#:84-69-5		
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

样品/部位描述

无色透明液体

Sample/Part Description

Colorless transparent liquid

备注:

对于检测铅,镉,汞之样品已完全溶解。

-N.D. = 未检出(小于方法检出限)

-mg/kg = ppm = 百万分之一

Remark:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

注释:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note:

The testing data and result(s) in this report is(are) just for scientific research, education,

internal quality control and product development etc.



Test Report

报告编号 A2210042522101009E **Report No.** A2210042522101009E

第5页 共7页

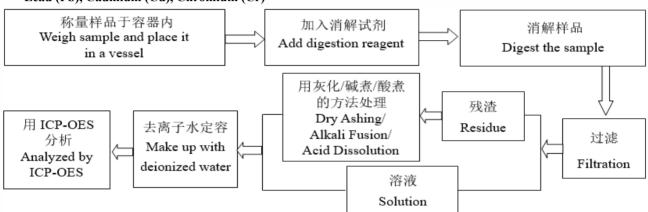
Page 5 of 7

X 350100,175

检测流程 Test Process

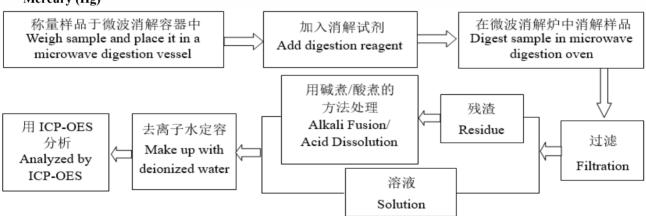
1. 铅(Pb),镉(Cd),铬(Cr)

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



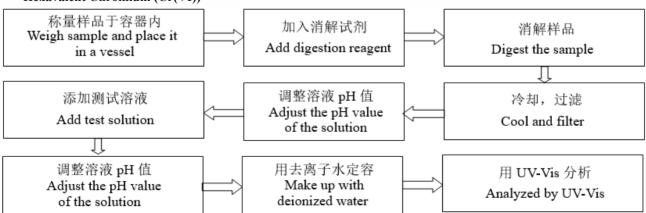
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))





Test Report

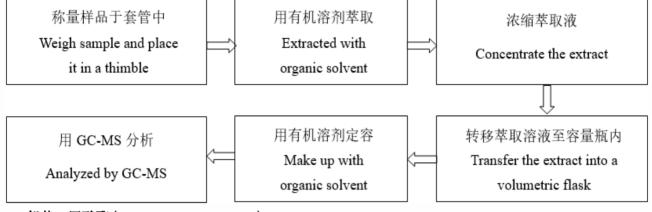
报告编号 A2210042522101009E **Report No.** A2210042522101009E

第6页 共7页

Page 6 of 7

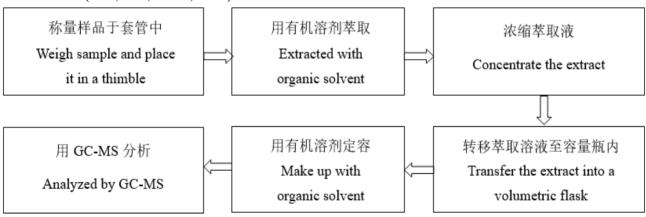
4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

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



5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



6. 氟(F), 氯(C1), 溴(Br), 碘(I)

Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

