



**BUREAU
VERITAS**

TEST REPORT

LAB NO. 报告号 : (6610)081-0301

DATE 日期 : March 26, 2010

PAGE 页码 : 1 OF 14

APPLICANT : SANSO (FUJIAN) PLASTIC CO., LTD
SANSO INDUSTRIAL AREA, JIANGTOU, CHENGDI, JINJIANG,
FUJIAN, CHINA, 362211

申请人公司名称 : 三斯达(福建)塑胶有限公司
福建省晋江市陈埭江头三斯达工业区

DATE OF SUBMISSION : March 22, 2010
样品收取日期 : 2010年3月22日

TEST PERIOD : March 22, 2010 to March 26, 2010
所需工作周期 : 2010年3月22日至2010年3月26日

NO. OF WORKING DAY(S) : 5
所需工作日 : 5

SAMPLE DESCRIPTION : One (1) received sample stated to be EVA 发泡, 灰色
样品描述 : Style No.: H1B1 15-80
Country of Origin: 中国
Manufacturer name: 三斯达(福建)塑胶有限公司/ SANSO (FUJIAN)
PLASTIC CO., LTD

TESTED ITEM 1 : Gray foam

SUMMARY OF TEST RESULTS

TEST REQUESTED	PASS	FAIL	
Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC	√		
Migration of Certain Elements - EN 71-3: 1994 with Amendment A1:2000 and AC:2002	√		
Polycyclic Aromatic Hydrocarbons (PAHs) Content - 30 LFGB, Chem Verbots V			See results in page 9
Phthalate Test			See results in page 10
Halogen content			See results in page 11
Dimethyl Fumarate Content			See results in page 11

REMARK/备注

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

若有任何疑问或咨询, 可通过下述联络方式与我们联系

General enquiry and invoicing

其他问题

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BUREAU VERITAS

CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

必维国际检验集团 - 上海申美商品检测有限公司

PREPARED BY : Michelle

制定:

郭晔轩 Kevin Guo

化学实验室技术经理

CHEMICAL LABORATORY TECHNOLOGY MANAGER

RW/2010



LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 2 OF 14

Photo of the Submitted Sample
递交样品照片



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BUREAU
VERITAS

TEST RESULT

测试结果

LAB NO. 报告号 : (6610)081-0301

DATE 日期 : March 26, 2010

PAGE 页码 : 3 OF 14

I. Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC

I. 有关欧洲针对电子产品的指令 (电子电器禁用某些有害物质指令), 2002/95/EC

Compounds 化合物	Tested item 测试项目 (mg/kg)	RoHS' Limits RoHS' 建议最高界限 (mg/kg)
	I	
Lead 铅 (Pb)	ND	1000
Mercury 汞 (Hg)	ND	1000
Cadmium 镉 (Cd)	ND	100
Chromium VI 六价铬 (Cr VI)	ND	1000
Polybrominated Biphenyls 多溴联苯 (PBBs):		
Bromobiphenyls 一溴联苯	ND	
Dibromobiphenyls 二溴联苯	ND	
Tribromobiphenyls 三溴联苯	ND	
Tetrabromobiphenyls 四溴联苯	ND	
Pentabromobiphenyls 五溴联苯	ND	
Hexabromobiphenyls 六溴联苯	ND	
Heptabromobiphenyls 七溴联苯	ND	
Octabromobiphenyls 八溴联苯	ND	
Nonabromobiphenyls 九溴联苯	ND	
Decabromobiphenyl 十溴联苯	ND	
Sum of PBBs 多溴联苯总和	ND	1000
Polybrominated Diphenyl Ethers 多溴联苯醚 (PBDEs):		
Bromodiphenyl ethers 一溴联苯醚	ND	
Dibromodiphenyl ethers 二溴联苯醚	ND	
Tribromodiphenyl ethers 三溴联苯醚	ND	
Tetrabromodiphenyl ethers 四溴联苯醚	ND	
Pentabromodiphenyl ethers 五溴联苯醚	ND	
Hexabromodiphenyl ethers 六溴联苯醚	ND	
Heptabromodiphenyl ethers 七溴联苯醚	ND	
Octabromodiphenyl ethers 八溴联苯醚	ND	
Nonabromodiphenyl ethers 九溴联苯醚	ND	
Decabromodiphenyl ether 十溴联苯醚	ND	
Sum of PBDEs 多溴联苯醚总和	ND	1000

Tested Item 测试项目	Conclusion 结论
1) Gray foam	PASS 通过



BUREAU
VERITAS

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 4 OF 14

Note / 注释:

Detection limits for regulated substances and limit of RoHS (in mg/kg) reference to 2002/95/EC

Regulated Substances 受限物质	Detection limit 检测限	RoHS' Limit (mg/kg) RoHS' 建议最高界限
Pb 铅	2	1000
Hg 汞	2	1000
Cd 镉	2	100
Cr VI 六价铬	2	1000
PBBs 多溴联苯 Bromobiphenyls Dibromobiphenyls Tribromobiphenyls Tetrabromobiphenyls Pentabromobiphenyls Hexabromobiphenyls Heptabromobiphenyls Octabromobiphenyls Nonabromobiphenyls Decabromobiphenyl	5 (each)	1000 (sum)
PBDEs 多溴联苯醚 Bromodiphenyl ethers Dibromodiphenyl ethers Tribromodiphenyl ethers Tetrabromodiphenyl ethers Pentabromodiphenyl ethers Hexabromodiphenyl ethers Heptabromodiphenyl ethers Octabromodiphenyl ethers Nonabromodiphenyl ethers Decabromodiphenyl ether	5 (each)	1000 (sum)

mg/kg= ppm 百万分之一

Negative = 阴性

Pb = Lead 铅

Br = Bromine 溴

< = less than 少于

Positive = 阳性

Hg = Mercury 汞

PBBs = Polybrominated Biphenyls 多溴联苯

ND = not detected 不被检出

NR = not requested 没有要求

NA = not applicable 不适用

Cd = Cadmium 镉

Cr = Chromium 铬

PBDEs = Polybrominated Diphenyl Ethers 多溴联苯醚

Test Method / 测试方法:

Wet Chemistry Tests – Reference to IEC 62321:2008, "Electrotechnical Products- Determination of Levels of Six Regulated Substances": 湿化学方法 – 参照 IEC 62321:2008, 电子电器产品中六种受限物质浓度测定

i. Lead (Pb) and Cadmium (Cd): The sample is comminuted and digested with acid mixtures. Pb/ Cd contents are determined with ICP-AES technique. (Chapter 8, 9 & 10)

铅和镉: 先将样品粉碎, 然后用混酸溶解。铅/镉的含量由等离子发射光谱仪测定 (第 8, 9 和 10 章)。

ii. Mercury (Hg): The sample is comminuted and digested with acid mixtures. Hg content is determined with ICP-AES, ICP-MS or AAS-VGA technique. (Chapter 7)

汞: 先将样品粉碎, 然后用混酸溶解。汞含量由离子发射光谱仪, 或者原子吸收分光光度计-氢化物发生装置测定。(第 7 章)

iii. Chromium (VI) (Cr VI) 六价铬:

A. Metal: Qualitative method for the presence of hexavalent chromium on metal surface on "Test for the presence of Hexavalent Chromium (Cr VI) in colourless and coloured corrosion-protection coatings on metals". The presence of hexavalent chromium is indicated by the formation of a red to violet color. The method is applied in turn to 1) untreated surface; 2) surface got by gently rubbing to scratch possibly reduced chromate surface but without completely removing the whole coating layer; 3) surface got by forcibly scratching into the deeper layers, even reaching the substrate. The sample is further verified by boiling water extraction method if the result of spot test shows ahead is negative or uncertain. (Annex B)

金属: 金属表面六价铬存在的定性方法 "金属表面无色和有腐蚀防护涂层中六价铬 (Cr VI) 的测试"。测试颜色呈红-紫色, 则表明六价铬的存在。该方法适用于 1) 未磨损过的表面; 2) 轻微磨损过的表面, 以去除可能被还原的铬酸盐表层, 但不去除整个镀层; 3) 用力磨损的镀层表面, 甚至于基材表面。如果以上点测试结果呈阴性或无法确定, 则用沸水萃取方法作进一步确认。(附录 B)

B. Plastics & Electronics: The sample is comminuted and digested with alkaline mixtures. Chromium VI content is determined with UV-VIS spectroscopic technique. (Annex C)

塑料和电子器件: 先将样品粉碎, 然后用混碱溶解。六价铬含量由紫外可见分光光度计测定。(附录 C)

iv. PBBs and PBDEs: The sample extracted by appropriate solvent is used for extraction and quantified GC-MS. (Annex A)

多溴联苯和多溴联苯醚: 将样品用合适溶液进行提取, 再由气相色谱-质谱联用仪测定。(附录 A)

Remark / 备注:

1. For Chromium VI of a metal composite sample by wet chemistry, each individual metal component was tested.

湿化学方法测试复合金属样品中六价铬时, 每一个金属部分均被测试。

2. Negative means hexavalent chromium on the tested areas does not be detected at the time of testing.

阴性结果表示测试时测试表面六价铬未被检出。

3. Positive means the presence of hexavalent chromium on the tested area. If the test result is positive, that means the Cr(VI) concentration detected in the spot-test solution is equal to or greater than 1 mg/kg or if use boiling-water extraction, the concentration is equal to or greater than 0.02mg/kg/50cm². However, it shall not be interpreted as the Cr(VI) concentration in the coating layer of the sample and should not be used as a method detection limit for this qualitative test.

阳性结果表示测试表面存在六价铬。如果测试结果呈阳性, 说明在点测试溶液中六价铬的浓度等于或大于 1mg/kg, 或用水 煮法时六价铬的浓度等于或大于 0.02mg/kg/50cm²。但这不应当作为样品镀层中六价铬的浓度, 也不应当用作方法检出限, 这只是一种定性的测试方法。



LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 5 OF 14

4. The results of lead, Cadmium, Mercury, PBB and PBDE of the tested item(s) meet the requirement of the EU directive 2002/95/EC(RoHS); and for the metallic sample with corrosion protection coating, the exact hexavalent chromium concentration of the surface coating cannot be determined by this qualitative test method (see remark 2 ahead) directly; so whether the tested item(s) meet(s) the EU directive RoHS or not, further confirmation and analysis should be done.

检测项目中铅、镉、汞、多溴联苯和多溴联苯醚的含量符合欧盟 RoHS 限量要求,对有腐蚀防护镀层的金属样品,镀层表面的六价铬准确含量则无通过此定性方法确定;若需确定是否符合欧盟 RoHS,需要进一步确认和分析。

5. The result relates only to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval.

The accreditation relates to competences given in the accreditation certificate.

测试结果仅代表被测样品。未经实验室书面许可,此报告不可被复制。对于本实验室未能涵盖的测试项目,实验室可以分包给其它政府承认的实验室。分包实验室的能力验证会在验证证书中注明。



BUREAU
VERITAS

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 6 OF 14

ANNEX

List of Exempted Specific Applications in RoHS Directive (The list will be updated accordingly if EC updates it.) 欧盟 RoHS 指令豁免项(豁免内容将跟随欧盟变化而变化)

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
2. Mercury in straight fluorescent lamps for general purposes not exceeding:
 - halophosphate 10 mg
 - triphosphate with normal lifetime 5 mg
 - triphosphate with long lifetime 8 mg.
3. Mercury in straight fluorescent lamps for special purposes.
4. Mercury in other lamps not specifically mentioned in this Annex.
5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
6. Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminium containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
7. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead),
 - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications,
 - Lead in electronic ceramic parts (e.g. piezoelectric devices). ◀ [R3]
8. Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC amending Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations. ◀ [R3]
9. Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators. 9b. Lead in lead-bronze bearing shells and bushes. ◀ [A2]
10. Within the procedure referred to in Article 7(2), the Commission shall evaluate the applications for:
 - Deca BDE,
 - Mercury in straight fluorescent lamps for special purposes,
 - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications (with a view to setting a specific time limit for this exemption), and
 - Light bulbs, as a matter of priority in order to establish as soon as possible whether these items are to be amended accordingly.
11. Lead used in compliant pin connector systems. ◀ [A3]
12. Lead as a coating material for the thermal conduction module c-ring. ◀ [A3]
13. Lead and cadmium in optical and filter glass. ◀ [A3]
14. Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight. ◀ [A3]
15. Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip Packages. ◀ [A3]
16. Lead in linear incandescent lamps with silicate coated tubes. ◀ [A4]
17. Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications. ◀ [A4]
18. Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSiO₅:Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb). ◀ [A4]
19. Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL). ◀ [A4]
20. Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD). ◀ [A4]
21. Lead and cadmium in printing inks for the application of enamels on borosilicate glass. ◀ [A6]
22. Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communication systems until 31 December 2009. ◀ [A9]
23. Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames. ◀ [A6]
24. Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors. ◀ [A6]
25. Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes. ◀ [A6]
26. Lead oxide in the glass envelope of Black Light Blue (BLB) lamps. ◀ [A6]
27. Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers. ◀ [A6]
28. Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment). Exemption granted until 1 July 2007. ◀ [A7] (Over now)
29. Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC. ◀ [A5]
For the purposes of Article 5(1)(a), a maximum concentration value of 0.1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0.01 % by weight in homogeneous materials for cadmium shall be tolerated. ◀ [A1]
30. Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more. ◀ [A8]
31. Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting). ◀ [A8]
32. Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes. ◀ [A8]
33. Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers. ◀ [A10]
34. Lead in cermet-based trimmer potentiometer elements. ◀ [A10]
35. Cadmium in photoresistors for photocouplers applied in professional audio equipment until 31 December 2009. ◀ [A10]
36. Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010. ◀ [A10]
37. Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body. ◀ [A10]
38. Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide. ◀ [A10]

Note:

Sentences within ► ◀ are the amendments

A = Added by R = Replacement specified in

1= 2005/618/EC 2= 2005/717/EC 3= 2005/747/EC 4= 2006/310/EC 5= 2006/690/EC 6= 2006/691/EC 7= 2006/692/EC
8= 2008/385/EC 9= 2009/428/EC 10= 2009/443/EC 11= 2008/35/EC



BUREAU
VERITAS

TEST RESULT

测试结果

LAB NO. 报告号 : (6610)081-0301

DATE 日期 : March 26, 2010

PAGE 页码 : 7 OF 14

II. Migration of Certain Elements - EN 71-3: 1994 with Amendment A1: 2000 and AC: 2002

II. EN 71 PART 3-特定元素的迁移

Parameter	Unit	Result
		1
Soluble Arsenic (As)	mg/kg	< 2.5
Soluble Barium (Ba)	mg/kg	< 5
Soluble Cadmium (Cd)	mg/kg	< 5
Soluble Chromium (Cr)	mg/kg	< 5
Soluble Mercury (Hg)	mg/kg	< 5
Soluble Lead (Pb)	mg/kg	< 5
Soluble Antimony (Sb)	mg/kg	< 5
Soluble Selenium (Se)	mg/kg	< 5
Conclusion	-	PASS

Test Item	Description	Mass of Trace Amount (g)
Material Classification: Polymeric materials		
1	Gray foam	NA

Note: < = Less than
mg/kg = milligram per kilogram
g = gram
NA = Not applicable

Method: EN 71-3: 1994 with amendment A1: 2000 and AC: 2002. The heavy metals content was determined by Inductively Coupled Argon Plasma Spectrophotometer.

Remark: 1. Limit and Analytical Correction

Element		As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum allowable limit (mg/kg)	All materials except modelling clay	25	1000	75	60	60	90	60	500
	Modelling clay	25	250	50	25	25	90	60	500
Analytical correction (%)		60	30	30	30	50	30	60	60

- The reported results are adjusted analytical results with the analytical correction shown in Remark 1.
- The received sample(s) contained component(s) of less than 10mg on one single sample, therefore such component(s) was not tested for migration of certain elements as specified in clause 7 of this standard.



BUREAU
VERITAS

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 8 OF 14

TEST RESULT
测试结果

III. Polycyclic Aromatic Hydrocarbons (PAHs) Content - 30 LFGB, Chem Verbots V

Parameter	Unit	Result	Maximum Allowable Limit	Maximum Allowable Limit	Maximum Allowable Limit
		1	Food or mouth contact, toys for children	Contact time up to 30 s	Contact time longer than 30 s
Naphthalene	mg/kg	0.198	-	-	-
Acenaphthylene	mg/kg	<0.1	-	-	-
Acenaphthene	mg/kg	<0.1	-	-	-
Fluorene	mg/kg	<0.1	-	-	-
Phenanthrene	mg/kg	<0.1	-	-	-
Anthracene	mg/kg	<0.1	-	-	-
Fluoranthene	mg/kg	<0.1	-	-	-
Pyrene	mg/kg	<0.1	-	-	-
Benzo (a) anthracene	mg/kg	<0.1	-	-	-
Chrysen	mg/kg	<0.1	-	-	-
Benzo (b) fluoranthene	mg/kg	<0.1	-	-	-
Benzo (k) fluoranthene	mg/kg	<0.1	-	-	-
Benzo (a) pyrene	mg/kg	<0.1	ND (<0.2)	<20	<1
Indeno (1,2,3-cd) pyrene	mg/kg	<0.1	-	-	-
Dibenzo (a,h) anthracene	mg/kg	<0.1	-	-	-
Benzo (g,h,i) perylene	mg/kg	<0.1	-	-	-
Sum	mg/kg	0.198	ND (<0.2)	<200	<10

Test Item 1:	Use Condition	Conclusion
Gray foam	Contact time up to 30 s	Pass
	Contact time longer than 30 s	Pass

Note: mg/kg = milligram per kilogram
 "<" = less than
 ND = Not detectable
 NA = Not applicable

Method: ZEK 01-08, Testing and Validation of PAH (in Products) in the course of GS-mark Certification.
 The PAH content was analyzed by Gas Chromatograph Mass Spectrometer.



BUREAU
VERITAS

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 9 OF 14

TEST RESULT
测试结果

IV. Phthalate Test

IV. 邻苯二甲酸盐测试

Phthalate 邻苯二甲酸盐	CAS No.	Testing item (%) 测试项目(%)	Laboratory reporting limit (%) 实验室报告界限(%)
		1	
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯	84-74-2	ND	0.005
Butyl benzyl phthalate (BBP) 邻苯二甲酸丁基苄基酯	85-68-7	ND	0.005
Di-2-ethylhexyl phthalate (DEHP) 邻苯二甲酸二(2-乙基己基)酯	117-81-7	ND	0.005
Di-n-octyl phthalate (DNOP) 邻苯二甲酸二辛酯	117-84-0	ND	0.005
Di-iso-decyl phthalate (DIDP) 邻苯二甲酸二异葵酯	26761-40-0	ND	0.005
Di-iso-nonyl phthalate (DINP) 邻苯二甲酸二异壬酯	28553-12-0	ND	0.005

Tested Item 1: Gray foam

Remark: ND = Not detected (Concentration below 0.005%)
备注: ND = 未检出 (含量小于 0.005%).
Results reported in percentage
报告结果采用百分比

Method: Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer.
方法: 用溶液萃取样品, 并用气相色谱-质谱联用仪分析。



BUREAU
VERITAS

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 10 OF 14

TEST RESULT
测试结果

V. Halogen (fluorine, chlorine, bromine, iodine) content

V. 卤素（氟、氯、溴、碘）含量

Compounds 化合物	Unit 单位	Result 结果	Laboratory Report Limit 实验室报告界限
		1	
Fluorine 氟	mg/kg	ND	100
Chlorine 氯	mg/kg	76.2	50
Bromine 溴	mg/kg	ND	50
Iodine 碘	mg/kg	ND	100

Tested Item 1: 测试项目 1:	Gray foam
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Note: mg/kg=milligram per kilogram
注释: mg/kg=毫克每千克
“<” = less than
“<” = 小于
Fluorine 氟/ Iodine 碘“ND” = less than 100 mg/kg
Chlorine 氯/ Bromine 溴“ND” = less than 50 mg/kg

Method: Sample was firstly combusted and absorbed with solvent, then analyzed by ion chromatography (reference to EN14582:2007 or IEC61189-2:2006).

方法: 将样品燃烧后用溶剂吸收, 然后用离子色谱仪分析。
(参照 EN14582:2007 或 IEC61189-2:2006)

VI. Dimethyl Fumarate Content

VI. 富马酸二甲酯

Parameter	Unit	Result
		1
Dimethyl Fumarate	mg/kg	<0.03

Test Item 1: Gray foam

Note: mg/kg = milligram per kilogram

Method: Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

END



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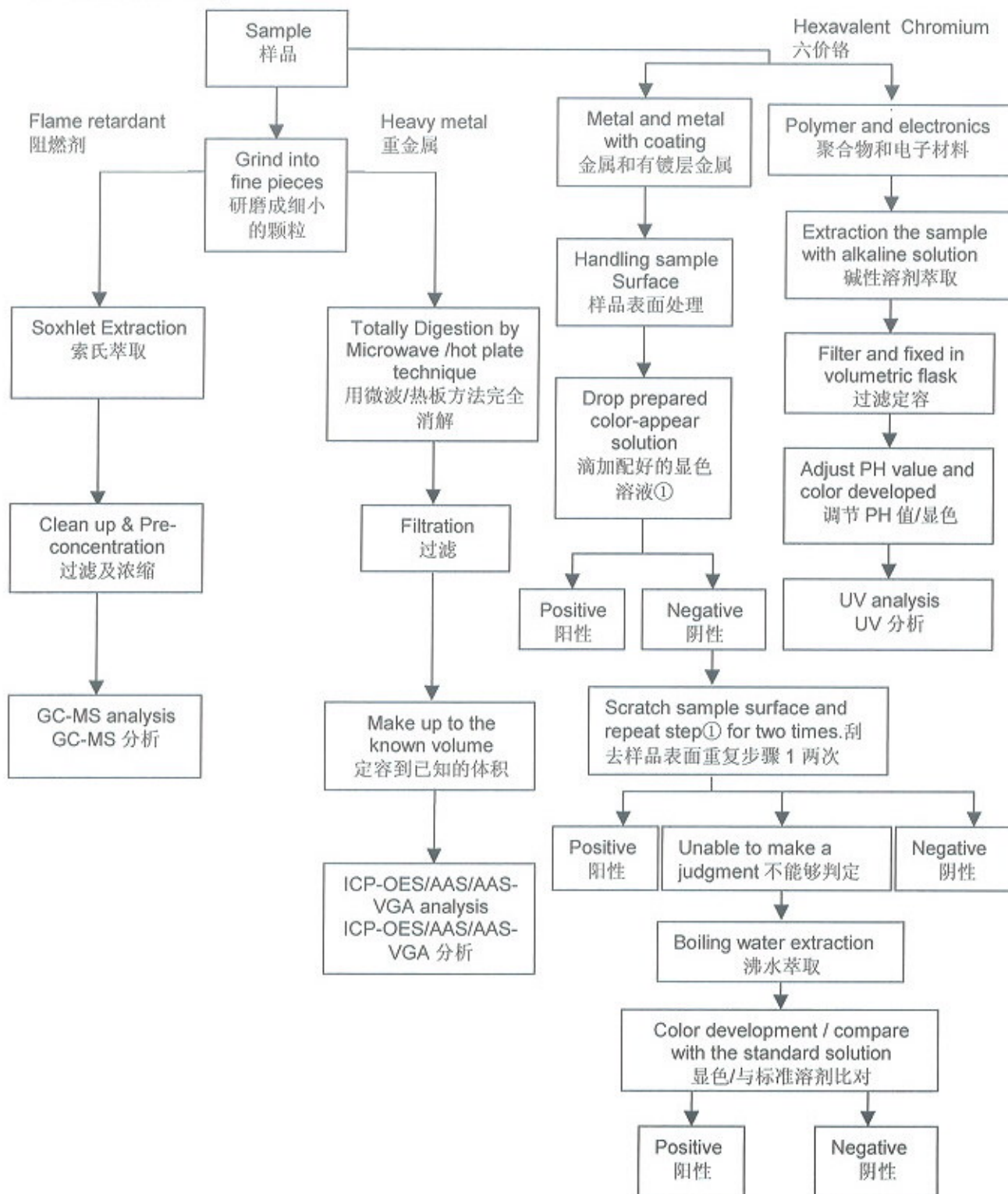
DATE 日期 : March 26, 2010

PAGE 页码 : 11 OF 14

APPENDIX

附录

Test Procedures Flow Chart for the determination of RoHS (total heavy metals, Hexavalent Chromium and flame retardants)

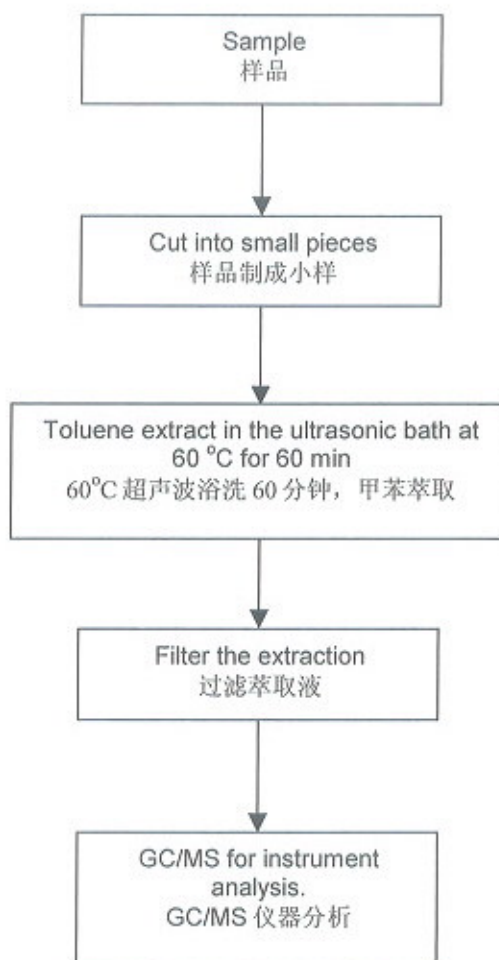




APPENDIX

附录

Test Procedures Flow Chart for the determination of PAHs





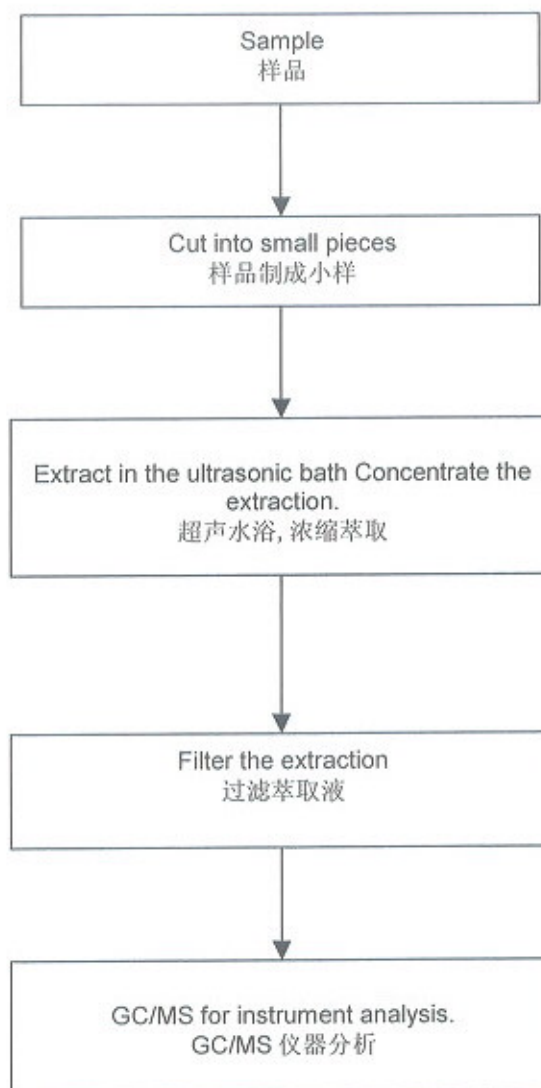
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LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 13 OF 14

APPENDIX

附录

Test Procedures Flow Chart for the determination of Phthalates





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APPENDIX

附录

LAB NO. 报告号 : (6610)081-0301
DATE 日期 : March 26, 2010
PAGE 页码 : 14 OF 14

Test Procedures Flow Chart for the determination of Halogen

