

测试报告 (Test Report) 报告编号(NO.): MDCDFTCU64542504 日期(Date): 2016.12.20 Page 1 of 3

委托单位 Applicant: 佛山市高明兆兴铝业有限公司
地址 Address: 佛山市高明区杨和镇和顺路 16 号

委托单位提供样品信息如下:

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

样品名称 Sample Name: 铝板
样品型号 Sample Model: 1100

样品接收日期 Sample Received Date: 2016.12.16
样品测试日期 Testing Period: 2016.12.16 TO 2016.12.20

参考要求: RoHS 2011/65/EU 及修订指令(EU)2015/863 附录 II 的要求
Reference Requested: RoHS Directive 2011/65/EU & (EU)2015/863 Annex II

参考方法: Reference Method:
(1) IEC62321-5 Edition 1.0:2013,用原子吸收光谱仪测定铅的含量
IEC62321-5 Edition 1.0:2013, Lead Analysis is performed by AAS
(2) IEC62321-5 Edition 1.0:2013,用原子吸收光谱仪测定镉的含量
IEC62321-5 Edition 1.0:2013,
Cadmium Analysis is performed by AAS
(3) IEC62321-4 Edition 1.0:2013,
用电感耦合等离子体原子发射光谱仪测定汞的含量
IEC62321-4 Edition 1.0:2013,
Mercury Analysis is performed by ICP-OES
(4) IEC62321 Edition 1.0 :2008,
用点测试法/沸水萃取法测定六价铬的含量
IEC62321 Edition 1.0 :2008,
Hexavalent Chromium Analysis is performed by Spot-test/
Boiling-water-extraction Method

测试结果 Testing Results: 请参见下页 Please refer to next page(s)

批准人 Approved by:

Code: n281x92k



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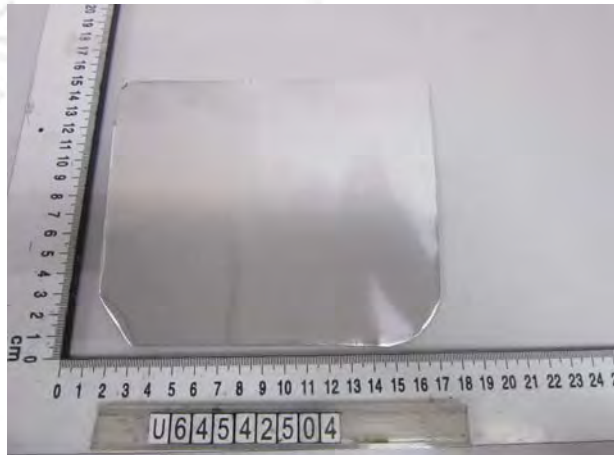
测试结果 Test Results (Unit: mg/kg)

测试项目 Test Item	方法检出限 MDL	测试结果 Test Result	RoHS 限量 RoHS Limit
铅(Lead)	1	19.8	1000
镉(Cadmium)	1	未检出 (N.D.)	100
汞(Mercury)	1	未检出 (N.D.)	1000
六价铬(Hexavalent Chromium)	参见备注(6) See Note (6)	阴性(Negative)	—

- 备注 Note:
- (1) mg/kg = ppm
 - (2) “—” = 未规定 Does not stipulate
 - (3) N.D. = 未检出 Not Detected (<MDL)
 - (4) MDL = 方法检出限 Method Detection Limit
 - (5) 最大允许限值引用 RoHS 2011/65/EU 及修订指令(EU)2015/863 附录 II 的要求
The most allowable limit value reference to RoHS Directive 2011/65/EU & (EU)2015/863 Annex II
 - (6) 点测试 Spot-test:

阴性=表层中不存在六价铬, 阳性=表层中存在六价铬;
Negative = Coating Not Detected of CrVI, Positive = Coating Presence of CrVI;
(如果点测试的测试结果为阴性或不确定, 应进一步用沸水萃取法验证 The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed or negative)
沸水萃取法 Boiling-water-extraction:
阴性=表层中不存在六价铬, 阳性=表层中存在六价铬;
Negative = Coating Not Detected of CrVI, Positive = Coating Presence of CrVI;
沸水萃取法中的测试浓度为每 50cm² 的测试面积等于或大于 0.02mg/kg
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50cm² sample surface area used

样品编号和照片 Sample No. & Photo:



仅对报告照片中的样品负责

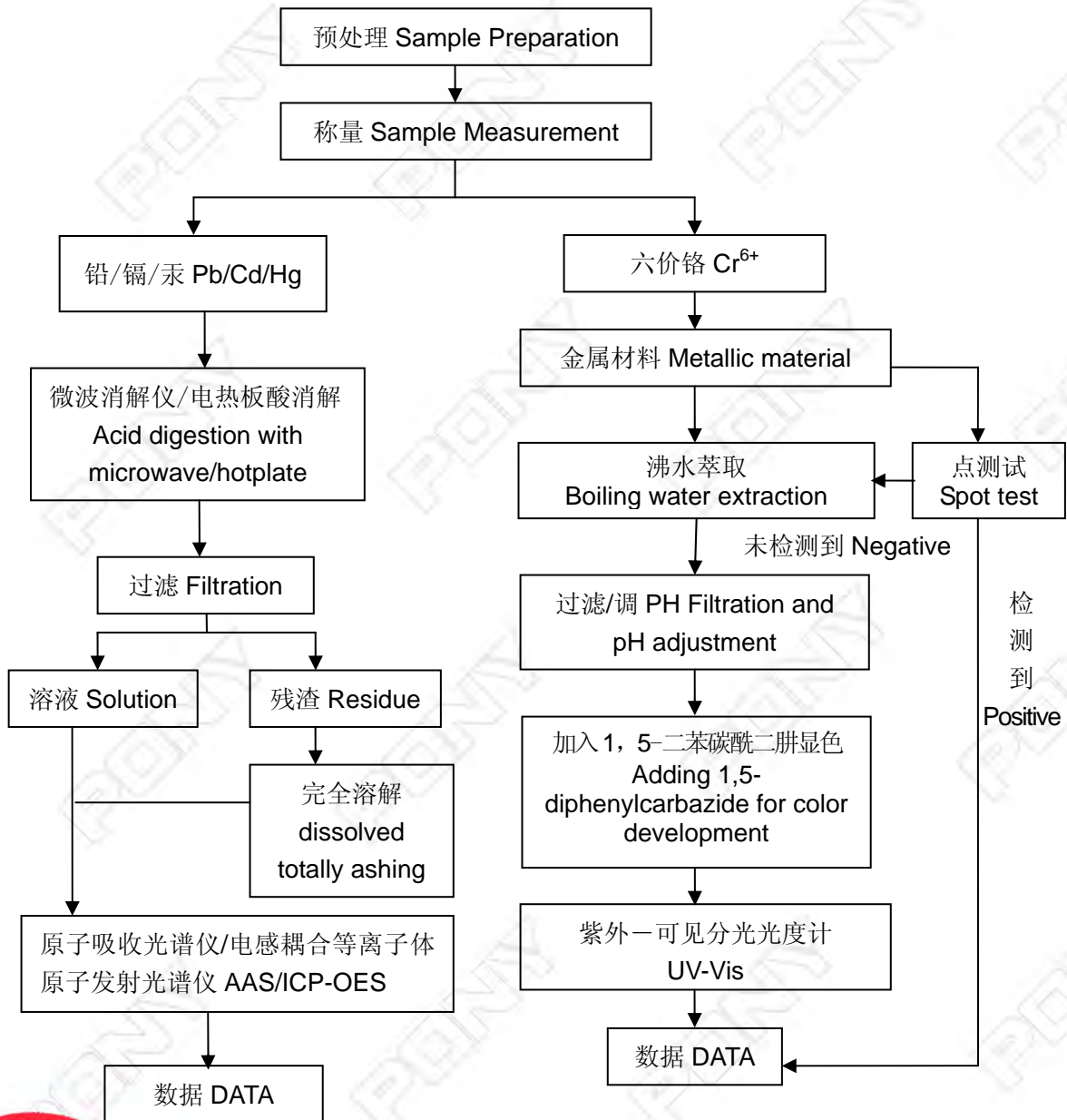
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测试流程图 Measurement Flow-chart

测试人员 Tested By: 梁英玲 审核人 Checked by: 杨新 实验室负责人 Person in charge of the lab by: 赵彦远
样品按照下述流程被完全消解 (六价铬除外)。

These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.
(Cr⁶⁺ Test Method Excluded)



报告结束 End of Report

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北京实验室: (010) 82618116	长春实验室: (0431) 85150908	上海实验室: (021) 64851999	深圳实验室: (0755) 26050909
青岛实验室: (0532) 88706866	哈尔滨实验室: (0451) 88104651	宁波实验室: (0574) 87736499	广州实验室: (020) 89224310
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Test Report

Number: LCZC16050450-E

Date: May. 18, 2016

Page 1 of 5

Applicant : Fo Shan Shun de Le liu Li quan Hardware Factory

Address : Loosen One of Seven Road No.1, Longsheng, Longyan Industrial Zone, Leliu, Shunde District, Foshan City

Date of Received : May. 13, 2016

Testing Period : From May. 13, 2016 to May. 18, 2016

Report on the submitted sample said to be:

Item Name : Measuring cups, Spoons, Spoon, Steamer rack

Material : PP

Sample No.	Test Request	Conclusion
01, 02	European RoHS directive 2011/65/EU and It's Amendment Directives — Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)) and Polybrominated Biphenyls & Polybrominated Biphenyl Ethers (PBBs & PBDEs) content	Pass

Notes: As requested by the applicant, sample 01, 02 were kinds of compositive sample(s), so the test result and relevant conclusion were based on the compositive test.

Please see the next page(s) for details.

Signed for and on behalf of **LCTECH**

Approved by



Robert Luo
Technical Manager

1 TEST RESULT

1.1 Pb, Cd, Hg, Cr(VI) and PBBs & PBDEs content — European RoHS directive 2011/65/EU and It's Amendment Directives

Test item	Test result (mg/kg)		Maximum Limit (mg/kg)
	01	02	
Cadmium (Cd)	ND	ND	100
Lead (Pb)	ND	ND	1000
Mercury (Hg)	ND	ND	1000
Chromium(VI) (Cr ⁶⁺)	ND	ND	1000
Monobromobiphenyl (MonoBB)	ND	ND	--
Dibromobiphenyl (DiBB)	ND	ND	--
Tribromobiphenyl (TriBB)	ND	ND	--
Tetrabromobiphenyl (TetraBB)	ND	ND	--
Pentabromobiphenyl (PentaBB)	ND	ND	--
Hexabromobiphenyl (HexaBB)	ND	ND	--
Heptabromobiphenyl (HeptaBB)	ND	ND	--
Octabromobiphenyl (OctaBB)	ND	ND	--
Nonabromobiphenyl (NonaBB)	ND	ND	--
Decabromobiphenyl (DecaBB)	ND	ND	--
Sum of PBBs	ND	ND	1000
MonobromodiphenylEther (MonoBDE)	ND	ND	--
DibromodiphenylEther (DiBDE)	ND	ND	--
Tribromodiphenyl Ether(TriBDE)	ND	ND	--
TetrabromodiphenylEther (TetraBDE)	ND	ND	--
PentabromodiphenylEther (PentaBDE)	ND	ND	--
HexabromodiphenylEther (HexaBDE)	ND	ND	--
HeptabromodiphenylEther (HeptaBDE)	ND	ND	--
OctabromodiphenylEther (OctaBDE)	ND	ND	--
NonabromodiphenylEther (NonaBDE)	ND	ND	--
DecabromodiphenylEther (DecaBDE)	ND	ND	--
Sum of PBDEs	ND	ND	1000

Remark:

- ND = Not Detected (less than Report Limit).
- mg/kg = 0.0001% = ppm = parts per million.
- "--" Not required.

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LCTECH (ZhongShan)Testing Service Co., Ltd

2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Guangdong, China, 528415

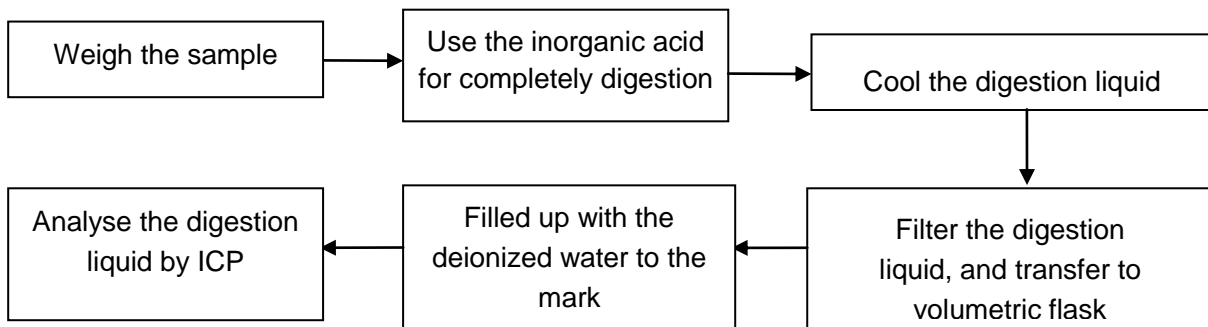
Tel: (86-760) 2283 3366 Fax: (86-760) 2283 3399 <http://www.lccert.com> Security code: 25818

Test method and Report Limit:

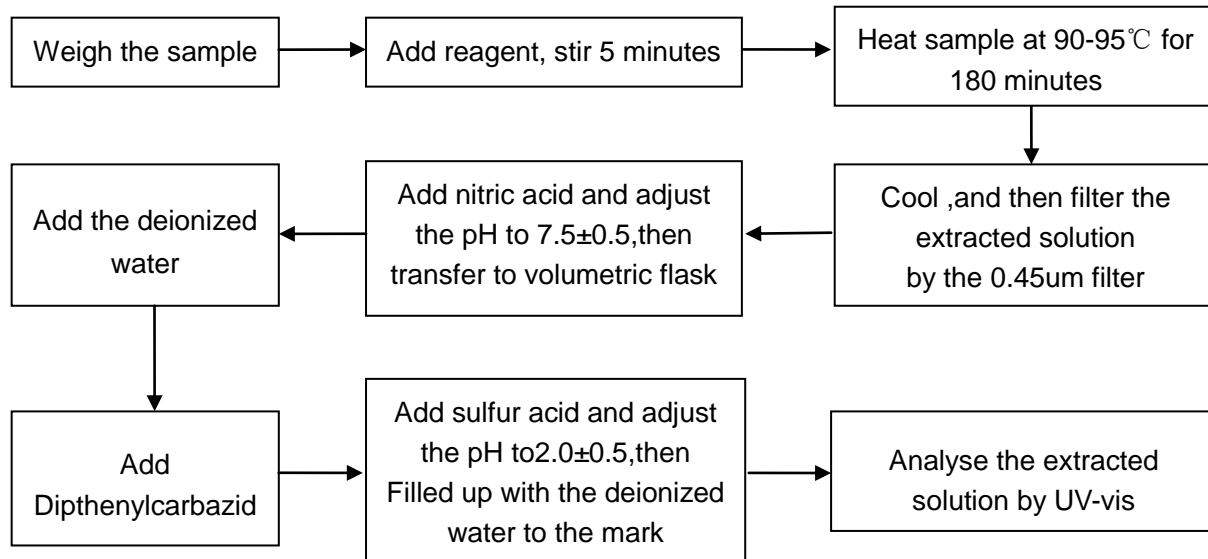
Test item	Test method	Report Limit
Cadmium (Cd)	IEC 62321-5 :2013, determined by ICP-OES	5 mg/kg
Lead (Pb)	IEC 62321-5 :2013, determined by ICP-OES	5 mg/kg
Mercury (Hg)	IEC 62321-4 :2013, determined by ICP-OES	5 mg/kg
Chromium(VI) (Cr ⁶⁺)	IEC 62321 :2008, determined by UV-VIS	2 mg/kg
PBBs	IEC 62321 :2008, determined by GC-MS	5 mg/kg
PBDEs	IEC 62321 :2008, determined by GC-MS	5 mg/kg

TEST FLOWCHART

A. To Determine Lead/Cadmium/Mercury Content:



B. To Determine Hexavalent Chromium Content in polymer and electronics materials:



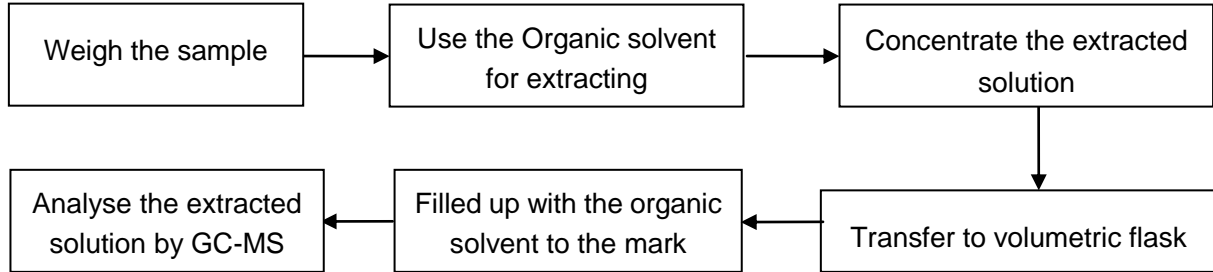
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C. To Determine PBBs/PBDEs Content:

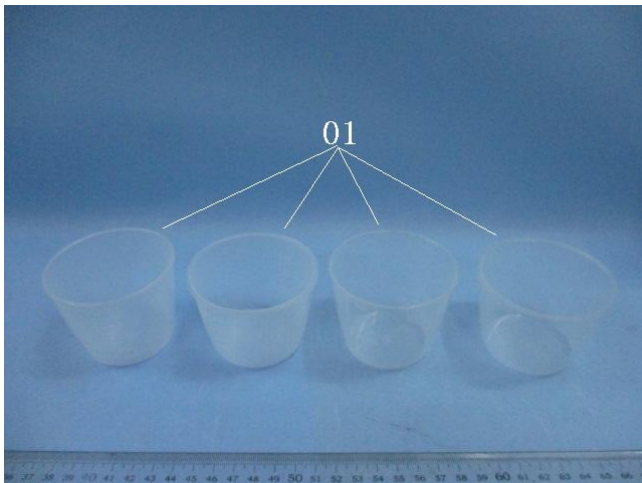


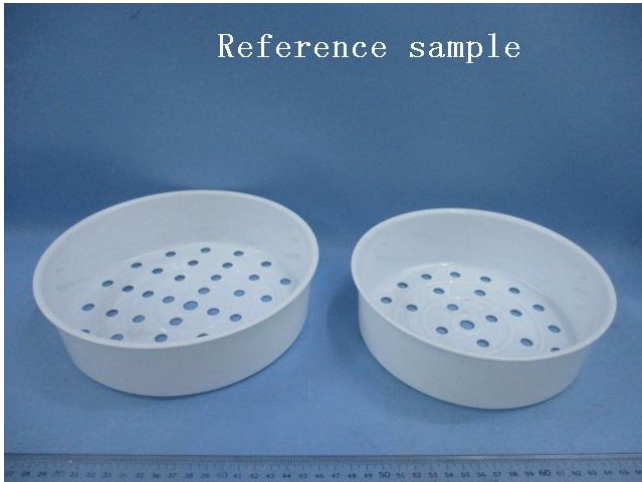
2 TESTED COMPONENTS

01 Semitransparent plastic + Semitransparent plastic + Transparent plastic + Transparent plastic

02 White plastic + White plastic + White plastic + White plastic

Photo of the Sample





As described in the above component description(s) and showed in the above picture(s), the relevant composite samples (01, 02) were analyzed with equal weight of each sample.



End of Report