

## 测试报告

No. CANEC1800889502

日期: 2018年01月17日 第1页,共8页

攀枝花天伦化工有限公司

中国 四川攀枝花盐边县安宁工业区

以下测试之样品是由申请者所提供及确认: 钛白粉

SGS工作编号: CQ18708693EC - CQ

型号: TLA-100

样品接收日期: 2018年01月11日

测试周期: 2018年01月11日 - 2018年01月17日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁基酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

按客户要求对样品进行测试, 所提供样品的可溶性元素含量的测试结果不超过欧洲玩具安全标准EN 71-3:2013+A2:2017的限值。

通标标准技术服务有限公司广州分公司  
授权签名

吴婵贤

Bella Wu 吴婵贤  
批准签署人

备注: 本报告是编号为CANEC1800889501报告的中文版本。



## 测试报告

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日期: 2018年01月17日 第2页,共8页

测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN18-008895.001	白色粉末

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

### RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	7
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	001
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863。IEC 62321系列等同于 EN 62321系列  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

### EN 71-3:2013+A2:2017 - 可溶性元素含量(类别III :可刮取的玩具材料)

测试方法: 参考EN 71-3:2013+A2:2017, 采用 ICP-OES进行分析。  
 六价铬用IC-UV/LC-ICP-MS/UV-VIS进行分析。

测试项目	限值	单位	MDL	001
可溶性铝(Al)	70,000	mg/kg	50	ND
可溶性锑(Sb)	560	mg/kg	10	ND
可溶性砷(As)	47	mg/kg	10	ND
可溶性钡(Ba)	18,750	mg/kg	50	ND
可溶性硼(B)	15,000	mg/kg	50	ND
可溶性镉(Cd)	17	mg/kg	5	ND
可溶性三价铬(Cr (III))	460	mg/kg	5	ND
可溶性六价铬(Cr (VI))	0.2	mg/kg	0.18	ND
可溶性钴(Co)	130	mg/kg	10	ND
可溶性铜(Cu)	7,700	mg/kg	50	ND
可溶性铅(Pb)	160	mg/kg	10	ND
可溶性锰(Mn)	15,000	mg/kg	50	ND
可溶性汞(Hg)	94	mg/kg	10	ND
可溶性镍(Ni)	930	mg/kg	10	ND
可溶性有机锡	12	mg/kg	-	ND
可溶性硒(Se)	460	mg/kg	10	ND
可溶性锶(Sr)	56,000	mg/kg	50	ND
可溶性锡(Sn)	180,000	mg/kg	4.9	ND



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测试项目	限值	单位	MDL	001
可溶性锌(Zn)	46,000	mg/kg	50	ND

备注:

- 1 可溶性三价铬=可溶性总铬-可溶性六价铬
- 2.如果可溶性总锡的结果, 经过换算后不超过EN 71-3:2013+A2:2017规定的可溶性有机锡的要求, 则不要做可溶性有机锡的确认性测试。

## 元素分析

测试方法: SGS内部方法(GZTC CHEM-TOP-004-01, 参考US EPA 方法 3052: 1996), 采用ICP-OES进行分析。

测试项目	单位	MDL	001
砷 (As)	mg/kg	10	ND
硒 (Se)	mg/kg	10	ND
锑 (Sb)	mg/kg	10	ND
钡 (Ba)	mg/kg	10	ND
镉 (Cd)	mg/kg	2	ND
铅(Pb)	mg/kg	2	7
汞 (Hg)	mg/kg	2	ND
铬 (Cr)	mg/kg	2	10

## 元素分析

测试方法: SGS内部方法(GZTC CHEM-TOP-004-01, 参考US EPA 方法 3052: 1996), 采用ICP-OES进行分析。

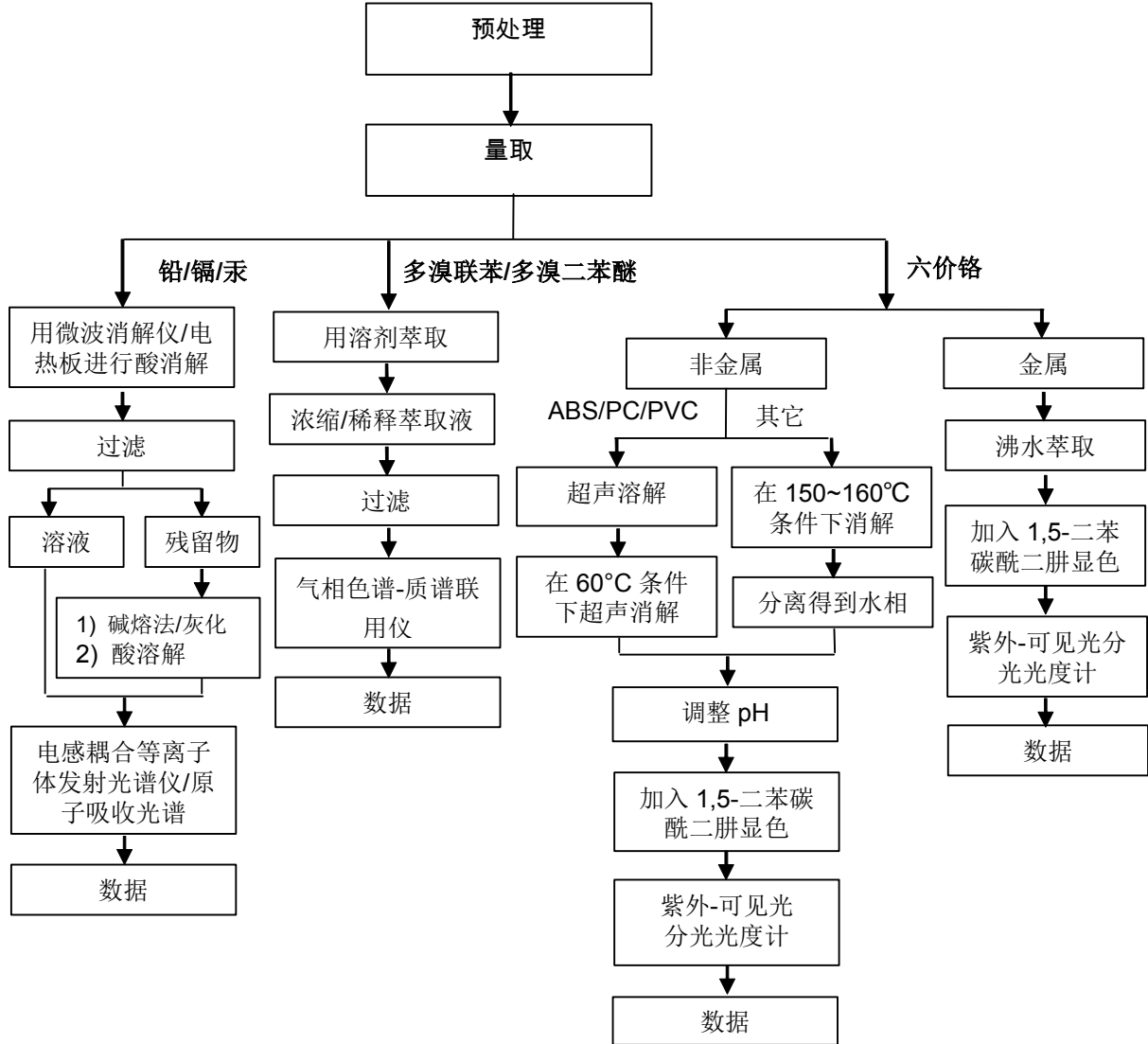
测试项目	单位	MDL	001
砷 (As)	mg/kg	10	ND
镍(Ni)	mg/kg	5	ND



附件

## Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 测试流程图

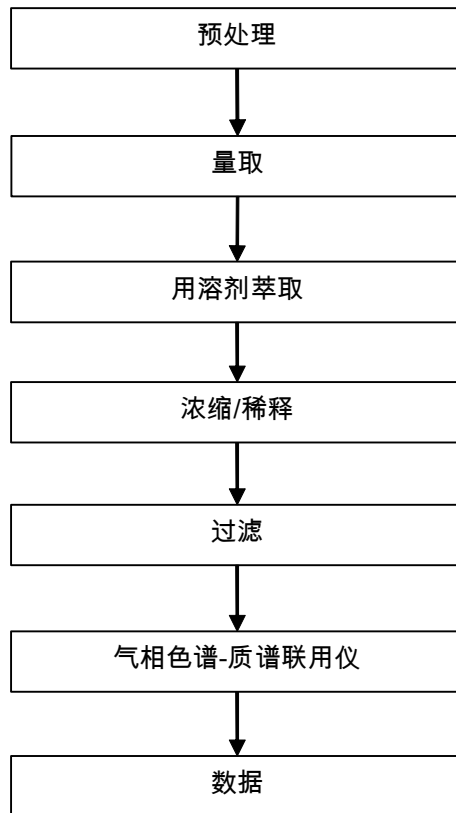
- 1) 分析人员: 张梓路 / 胡香云
- 2) 项目负责人: 汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

### Phthalates 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



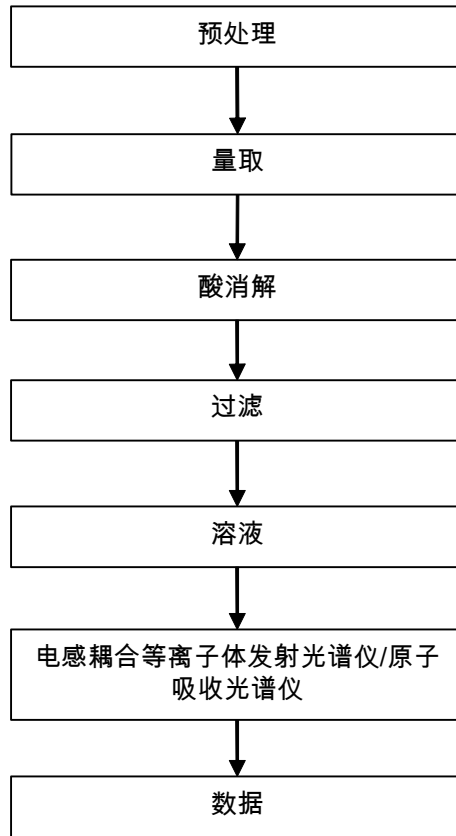
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附件

元素测试流程图

- 1) 分析人员：张梓路
- 2) 项目负责人：汪丹



样品照片:



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\*\*\* 报告完 \*\*\*