

No. CANML1804374202

日期: 2018年03月21日 第1页,共9页

福建省南平市三金电子有限公司 福建省南平市延平区四鹤街道西溪路64-7号

以下测试之样品是由申请者所提供及确认:SMD 上盖电解镀被膜

SGS工作编号: XMIN1803001281PC - XM

材质:

样品接收日期: 2018年03月15日

测试周期: 2018年03月15日 - 2018年03月20日

测试要求: 根据客户要求测试 请参见下一页 测试方法: 测试结果: 请参见下一页

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 结论:

> 醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄 酯(BBP)、邻苯二甲酸二(2-乙基已基)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。

通标标准技术服务有限公司广州分公司 授权签名

杨公毅

Echo Yeung杨谷毅 批准签署人

备注:本报告是编号为CANML1804374201报告的中文版本。



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测试报告 日期: 2018年03月21日 第2页,共9页 No. CANML1804374202

测试结果:

测试样品描述:

样品编号 SGS样品ID 描述

SN1 CAN18-043742.001 银灰色金属

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 检测极限值

(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 62321-7-1:2015, 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	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	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	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
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-乙基已基)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:12586 37,25

- (2) ▼=a. 当六价铬的浓度高于0.13 µg/cm2时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 μg/cm2)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 μg/cm2与0.13 μg/cm2之间时,无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六 价铬的状态。

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>
氟 (F)	mg/kg	50	ND
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

全氟辛烷磺酰基化合物(PFOS)和全氟辛酸(PFOA)

测试方法: SGS内部方法(GZTC CHEM-TOP-062-04, 参考US EPA方法 3550C:2007),用 LC-MS分析。

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛酸 (PFOA)	335-67-1	mg/kg	10	ND
全氟辛烷磺酸及其衍生物 (PFOS) ⁴	_	ma/ka	10	ND



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备注:

(1)(EC) No 850/2004 补充指令 (EU) No 757/2010的要求:

第4章(1)(b)款适用于PFOS浓度等于或低于10mg/kg(0.001%重量比)的物质或配制品。

第4章(1)(b)款适用于PFOS浓度低于0.1%(重量比)的半成品,成品或者它们的部件,以含

有PFOS的结构或特殊部件的局部结构计算,对于纺织品和其它涂层的材料,PFOS的量低于1µg/m2。 (2) ^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-(N-乙基 全氟辛基磺酰胺) 乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰

胺(EtFOSA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。



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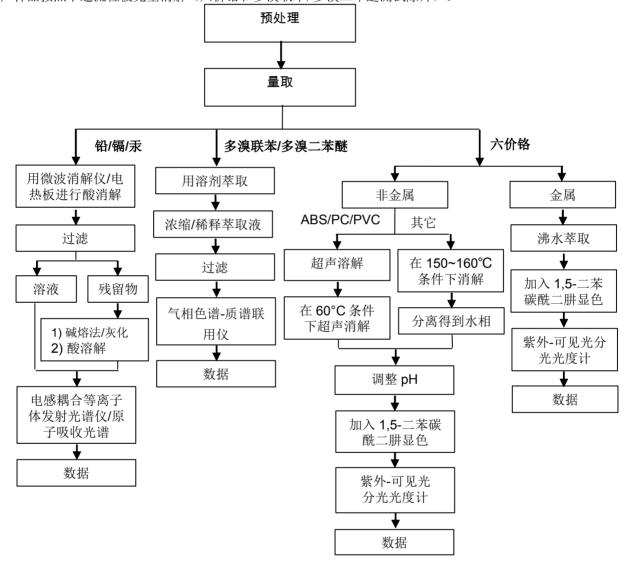
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附件

Pb/Cd/Hg/Cr6+/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)。





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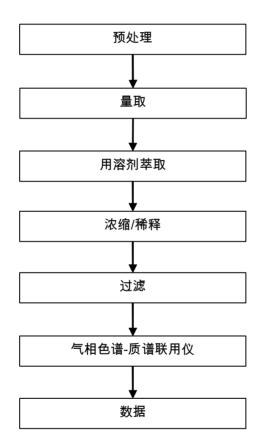
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附件

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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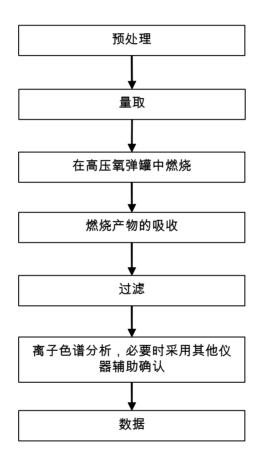
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附件

Halogen 测试流程图

1) 分析人员: 肖戈 2) 项目负责人: 汪丹





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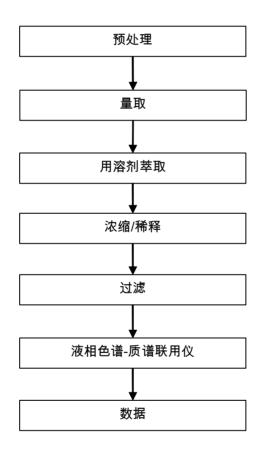
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附件

PFOA / PFOS 测试流程图

1) 分析人员: 王志红 2) 项目负责人:刘琼





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