

No. SHAEC1808924204

日期: 2018年05月11日 第1页,共17页

上海复旦微电子集团股份有限公司上海市杨浦区国泰路127号4号楼

以下测试之样品是由申请者所提供及确认:IC-1

SGS工作编号: SP18-014058 - SH

型号: SOP PACKAGE-G

样品接收日期: 2018年05月02日

测试周期: 2018年05月02日 - 2018年05月07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)、邻苯二甲酸丁苄

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。

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Dora Hu胡敏 批准签署人

本报告是编号为SHAEC1808924203报告的中文版本.



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3¹⁴Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮編: 200233 t E&E (86-21) 61402553 f E&E (86-21)64953679 t HL (86-21) 61402594 f HL (86-21)61156899



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测试结果:

测试样品描述:

样品编号 SGS样品ID 描述 SN1 SHA18-089242.002 黑色本体带印字 SN2 SHA18-089242.024 银色金属引脚

备注:

(1) 1 mg/kg = 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+AMD1:2017, 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。

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	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)	1000	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



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
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:125863 7.25

- (2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863 附录II限值中还包括邻苯 二甲酸酯BBP,DBP,DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含 量不得超过0.1%。
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械,包括体外医疗器械,监控仪 表,包括工业监测和控制仪器。
- (4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维 修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械,包括体外医 疗器械, 监控仪表, 包括工业监测和控制仪器。
- (5) DEHP、BBP 和 DBP的限制不适用于玩具产品,因为No.1907/2006 附录XVII第51条已对玩具产品中 的DEHP、BBP 和 DBP含量进行了限制。

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+AMD1:2017, IEC 62321-5:2013和IEC 62321-7-1:2015, 采用ICP-OES, AAS和UV-Vis进行分析。

测试项目	<u>限值</u>	单位	<u>MDL</u>	<u>024</u>
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	5
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND

备注:



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(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:125863

(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 $0.10 \, \mu g/cm^2 = 0.13 \, \mu g/cm^2$ 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。

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
锑(Sb)	mg/kg	10	ND

卤素

测试方法: 参照EN 14582: 2016 方法 测定, 采用 IC进行分析.

测试项目	<u>单位</u>	<u>MDL</u>	<u>002</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

多氯萘(PCNs)

测试方法: 参照US EPA 8081B: 2007 方法测定, 采用GC-MS进行分析.

测试项目	<u>单位</u>	<u>MDL</u>	<u>002</u>
2-一氯萘	mg/kg	5	ND
1,4-二氯萘	mg/kg	5	ND
1,5-二氯萘	mg/kg	5	ND
1,2-二氯萘	mg/kg	5	ND
1,8-二氯萘	mg/kg	5	ND



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测试项目	<u>单位</u>	<u>MDL</u>	<u>002</u>
1,2,3-三氯萘	mg/kg	5	ND
1,2,3,4-四氯萘	mg/kg	5	ND
1,2,3,4,6-五氯萘	mg/kg	5	ND
八氯萘	mg/kg	5	ND
1-氯萘	mg/kg	5	ND

短链氯化石蜡(SCCP)(C₁₀-C₁₃)

测试方法: 参照ISO 18219: 2015 方法测定, 采用GC-NCI-MS进行分析.

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
短链氯化石蜡(SCCP) (C10-C13)	mg/kg	50	ND

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS进行分析.

测试项目 单位 **MDL** 002 ND 四溴双酚-A mg/kg 10

多氯三联苯(PCTs)

测试方法: 参照US EPA 8082A: 2007 方法测定, 采用GC-MS进行分析,

测试项目	<u>单位</u>	<u>MDL</u>	<u>002</u>
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND

邻苯二甲酸酯

参考IEC 62321-8: 2017,用GC-MS测定邻苯二甲酸酯的含量。 测试方法:



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测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	002
邻苯二甲酸二异壬酯 (DINP)	28553-12-0	mg/kg	50	ND
	/68515-48-0			
邻苯二甲酸二辛酯 (DNOP)	117-84-0	mg/kg	50	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0	mg/kg	50	ND
	/68515-49-1			
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND
邻苯二甲酸二正己酯(DHP, DHxP)	84-75-3	mg/kg	50	ND
邻苯二甲酸二戊酯(DnPP)	131-18-0	mg/kg	50	ND
邻苯二甲酸二苯酯(DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸二甲酯(DMP)	131-11-3	mg/kg	50	ND
邻苯二甲酸二乙酯(DEP)	84-66-2	mg/kg	50	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	50	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	mg/kg	50	ND
邻苯二甲酸二C6-C8支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二	68515-51-5,	mg/kg	50	ND
辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	68648-93-1			
邻苯二酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	mg/kg	50	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	mg/kg	50	ND

多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK 方法测试, 采用 GC-MS进行分析.

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘 (BeP)	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	mg/kg	0.1	ND
屈 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	mg/kg	0.1	ND
苊烯(ANY)	mg/kg	0.1	ND
苊(萘嵌戊烷) (ANA)	mg/kg	0.1	ND
芴 (FLU)	mg/kg	0.1	ND
菲 (PHE)	mg/kg	0.1	ND
芘 (PYR)	mg/kg	0.1	ND



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测试项目	<u>单位</u>	<u>MDL</u>	002
蒽 (ANT)	mg/kg	0.1	ND
荧蒽 (FLT)	mg/kg	0.1	ND
7项多环芳香烃总和[苊烯(ANY),苊(萘嵌戊烷) (ANA),芴 (FLU),菲 (PHE),芘	mg/kg	-	ND
(PYR), 蒽 (ANT), 荧蒽 (FLT)]			
萘 (NAP)	mg/kg	0.1	ND
18项多环芳香烃总和	mg/kg	-	ND

AfPS(德国产品安全委员会):GS 认证对多环芳香烃的要求

参数	1 类	2 类		3 类	
	设计意图为放入口中的材料或者玩具上与皮肤接触的材料(接触时间大于30秒)。	未在1类规定 料,且可能与皮 大于30秒的本 接触皮肤)或线	皮肤接触时间 未在 1 和 2 类规定中涵盖 材料 (长时间 料,且可能与皮肤接触的。 线频繁接触皮 30 秒的材料(短期接触皮		妾触的少于
		2009/48/EC 中适用的玩 具	产品安全 法涉及的 其他产品	2009/48/EC中适 用的玩具	产品安全 法涉及的 其他产品
苯并(a)芘 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧蒽mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
屈(CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)花(二萘嵌苯) (BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苊烯(ANY),苊(萘嵌戊 烷) (ANA),芴 (FLU), 菲 (PHE),芘 (PYR), 蔥 (ANT),荧蔥 (FLT)之 和 mg/kg	<1(总和)	< 5 (总 和)	<10(总 和)	<20 (总和)	< 50 (总 和)
萘 (NAP) mg/kg	< 1	< 2		< 10	
18 PAH之和	<1	< 5	< 10	< 20	< 50

全氟辛烷磺酸 (PFOS)和全氟辛酸(PFOA)

参照US EPA 3550C: 2007. 采用HPLC-MS测试. 测试方法:



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测试报告 No. SHAEC1808924204 日期: 2018年05月11日 第8页,共17页

 测试项目
 限值
 单位
 MDL
 002

 全氟辛烷磺酸(PFOS)及衍生物^
 1000
 mg/kg
 10
 ND

 全氟辛酸 (PFOA)
 mg/kg
 10
 ND

备注:

- (1) 最大允许限制引用自(EC) No. 850/2004 的修订指令欧盟决议(EU) No. 757/2010.
- (2) ^= PFOS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)。

多氯联苯(PCBs)

测试方法: 参照US EPA 8082A: 2007 方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-五氯联苯(PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯(PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯 (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯 (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-七氯联苯 (PCB 180)	35065-29-3	mg/kg	0.5	ND

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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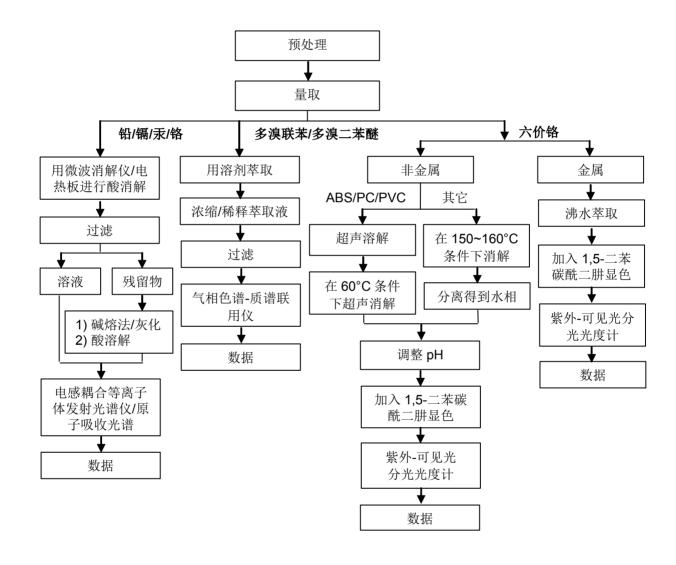
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日期: 2018年05月11日 第9页.共17页

附件

Pb/Cd/Hq/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员: 金叶/徐刚/杨小龙/宋珂静
- 2) 项目负责人:施青/马永存/徐亮/王晓艳
- 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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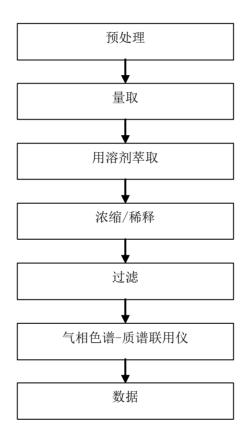
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附件

Phthalates 测试流程图

1) 分析人员: 高仰景 2) 项目负责人: 黄婷





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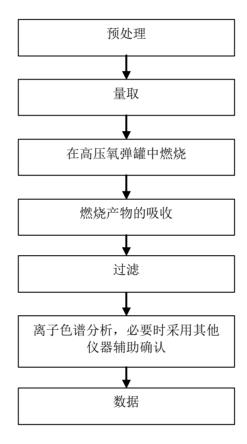
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附件

Halogen(氧弹法)测试流程图

1) 分析人员: 徐诚 2) 项目负责人: 印字





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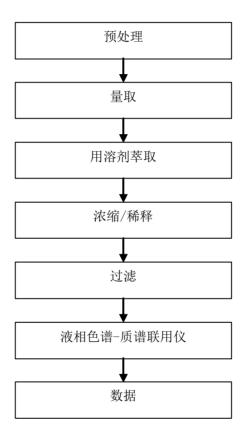
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附件

PFOS/PFOA 测试流程图

1) 分析人员: 杨占君 2) 项目负责人: 李晓茹





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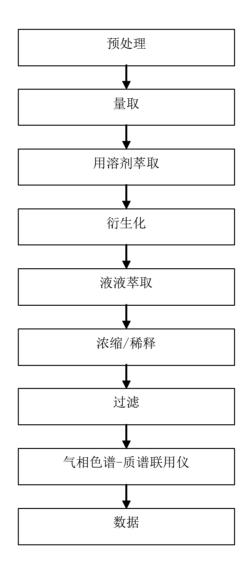
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附件

TBBP-A测试流程图

1) 分析人员: 徐刚 2) 项目负责人: 马永存





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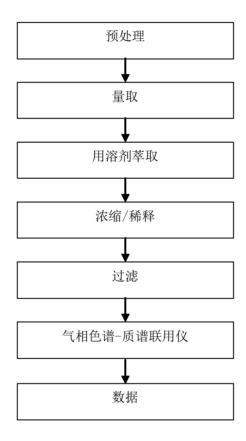
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PAHs 测试流程图

1) 分析人员: 高仰景 2) 项目负责人: 黄婷





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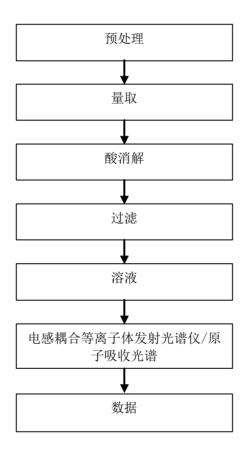
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附件

元素测试流程图

1) 分析人员: 金叶/ 宋珂静 2) 项目负责人: 徐亮/施青





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附件

PCB / PCT / PCN 测试流程图

- 1) 分析人员: 张海珍 2) 项目负责人: 冯彬彬
- 预处理 量取 用溶剂萃取 浓缩/稀释 过滤 气相色谱-质谱联用仪 数据



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