

## 测试报告

No. SHAMPLP2018844302

日期: 2020年09月27日 第1页,共4页

江阴新顺微电子有限公司  
江苏省江阴市长山大道78号

以下测试之样品是由申请者所提供及确认:三扩材料半导体芯片

SGS工作编号: SHIN2009056818PC - SH  
样品接收日期: 2020年09月18日  
测试周期: 2020年09月18日 - 2020年09月23日  
测试要求: 根据客户要求:  
基于欧盟POPs法规(EU) 2019/1021, 对附录I中物质进行筛分测试。  
测试方法: 请参见下一页  
测试结果: 请参见下一页  
测试结果概要:

| 测试要求                  | 结论 |
|-----------------------|----|
| 委托样品中持久性有机污染物(POPs)浓度 | 符合 |

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Denki Zheng 郑文轩  
批准签署人

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Testing Center - Client Responsibility

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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  | SHA20-188443.001 | 彩色固体件 |

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

### 持久有机性污染物(POPs)

测试方法: SGS内部方法, 采用用GC-MS、GC-ECD和HPLC-DAD-MS进行分析。

| 测试项目  | CAS NO.        | 限值   | 单位    | MDL | 001 |
|---|----------------|------|-------|-----|-----|
| 多氯联苯(PCB)   | 1336-36-3 及其他  | ★    | mg/kg | 5   | ND  |
| 多氯萘(PCN)  | 70776-03-3 及其他 | ★    | mg/kg | 5   | ND  |
| 六氯丁二烯   | 87-68-3        | ★    | mg/kg | 5   | ND  |
| 五氯苯   | 608-93-5       | ★    | mg/kg | 5   | ND  |
| 六氯苯   | 118-74-1       | ★    | mg/kg | 5   | ND  |
| 六溴联苯  | 36355-01-8     | ★    | mg/kg | 5   | ND  |
| 四溴联苯醚   | 40088-47-9 及其他 | 10   | mg/kg | 5   | ND  |
| 五溴联苯醚   | 32534-81-9 及其他 | 10   | mg/kg | 5   | ND  |
| 六溴联苯醚   | 36483-60-0 及其他 | 10   | mg/kg | 5   | ND  |
| 七溴联苯醚   | 68928-80-3 及其他 | 10   | mg/kg | 5   | ND  |
| 十溴联苯醚   | 1163-19-5      | 10   | mg/kg | 5   | ND  |
| 五氯苯酚(PCP)及其盐和酯                                    | 87-86-5及其他     | ★    | mg/kg | 0.5 | ND  |
| C10-13 氯代烃(短链氯化石蜡) (SCCPs)                        | 85535-84-8及其他  | 1500 | mg/kg | 50  | ND  |
| 六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD) | ※              | 100  | mg/kg | 10  | ND  |
| 全氟辛酸磺酸 (PFOS) 及衍生物                                | -              | 1000 | mg/kg | -   | ND  |
| 全氟辛酸磺酸 (PFOS) ^                                   | 1763-23-1      | -    | mg/kg | 1   | ND  |



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| 测试项目                            | CAS NO.                                    | 限值    | 单位    | MDL   | 001 |
|---------------------------------|--|-------|-------|-------|-----|
| 2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE)      | 24448-09-7                                 | -     | mg/kg | 1     | ND  |
| 2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE)      | 1691-99-2                                  | -     | mg/kg | 1     | ND  |
| N-甲基全氟辛烷磺酰胺 (MeFOSA)            | 31506-32-8                                 | -     | mg/kg | 1     | ND  |
| N-乙基全氟辛烷磺酰胺 (EtFOSA)            | 4151-50-2                                  | -     | mg/kg | 1     | ND  |
| 全氟辛基磺酰胺 (PFOSA)                 | 754-91-6                                   | -     | mg/kg | 1     | ND  |
| 全氟辛酸(PFOA)及其盐+                  |  | 0.025 | mg/kg | 0.025 | ND  |
| 全氟辛酸(PFOA)相关物质                  |  | 1     | mg/kg | -     | ND  |
| 1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)    | 39108-34-4                                 | -     | mg/kg | 0.2   | ND  |
| 全氟辛酸甲酯 (Me-PFOA)                | 376-27-2                                   | -     | mg/kg | 0.2   | ND  |
| 全氟辛酸乙酯 (Et-PFOA)                | 3108-24-5                                  | -     | mg/kg | 0.2   | ND  |
| 1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)   | 678-39-7                                   | -     | mg/kg | 0.2   | ND  |
| 1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)   | 27905-45-9                                 | -     | mg/kg | 0.2   | ND  |
| 1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA) | 1996-88-9                                  | -     | mg/kg | 0.2   | ND  |
| 全氟辛基碘烷 (PFOI)                   | 507-63-1                                   | -     | mg/kg | 0.2   | ND  |
| 异狄氏剂                            | 72-20-8                                    | ★     | mg/kg | 0.05  | ND  |
| 七氯                              | 76-44-8                                    | ★     | mg/kg | 0.05  | ND  |
| 灭蚁灵                             | 2385-85-5                                  | ★     | mg/kg | 0.05  | ND  |
| 艾氏剂                             | 309-00-2                                   | ★     | mg/kg | 0.05  | ND  |
| 狄氏剂                             | 60-57-1                                    | ★     | mg/kg | 0.05  | ND  |
| 2,4-滴滴涕                         | 50-29-3                                    | ★     | mg/kg | 0.05  | ND  |
| 毒杀芬                             | 8001-35-2                                  | ★     | mg/kg | 0.2   | ND  |
| 十氯铜                             | 143-50-0                                   | ★     | mg/kg | 0.2   | ND  |
| 六氯环己烷,包括林丹                      | 58-89-9/319-84-6/<br>319-85-7/608-73-<br>1 | ★     | mg/kg | 0.05  | ND  |
| 硫丹                              | 115-29-7/959-98-<br>8/33213-65-9           | ★     | mg/kg | 0.05  | ND  |
| 氯丹                              | 57-74-9<br>115-32-2                        | ★     | mg/kg | 0.05  | ND  |

备注:

- ★=禁止
- 欧盟POPs法规(EU) 2019/1021, 附录I 中的物质禁用混合物及物品中使用, 除非法规有特殊豁免。
- 对POPs物质的分析检测是基于现有的技术, 根据客户要求进行测试。
- 测试结果可能来源于混合测试中一个或多个组分, 建议客户进一步定量分析检测含有POPs的组分并且得到POPs物质的准确浓度。
- 豁免: C10-13 氯代烃(短链氯化石蜡)在混合物中的法规限值是1.0% (w/w), 在物品中的法规限值为0.15% (w/w)。



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6. 豁免: HBCDD 做为无意添加的微量污染物, 在物质, 混合物, 物品或者物品的阻燃剂中不能超出100mg/kg。
  7. ✖: 25637-99-4 & 3194-55-6&134237-50-6&134237-51-7&134237-52-8
  8. 豁免: 全氟辛烷磺酸(PFOS)及其衍生物在混合物中的法规限值是10mg/kg, 在物品中的法规限值是0.1%(w/w), 在纺织品和涂层材料中的限值是1µg/m<sup>2</sup>。
  9. ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)
  10. + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);
  11. 豁免: 四溴联苯醚、五溴联苯醚、六溴联苯醚、七溴联苯醚和十溴联苯醚在物质中的法规限值是10mg/kg, 混合物和物品中四溴、五溴、六溴、七溴和十溴二苯醚的总和不得超过500 mg/kg, 该限制应在2021年7月16日之前由委员会审查和评估
  12. 豁免: RoHS指令(2011/65/EU)定义的电子电器产品中四溴联苯醚、五溴联苯醚、六溴联苯醚、七溴联苯醚和十溴联苯醚豁免于POPs法规。
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