

测试报告

No. TSNEC2102653514

日期: 2022年01月04日 第1页,共11页

天水华天科技股份有限公司
甘肃省天水市秦州区赤峪路88号

以下测试之样品是由申请者所提供及确认: ETSSOP028-PINLEAD PLAYING PART(PURE TIN PLATING PRODUCT) base material is copper Alloy

SGS工作编号: TP21-008776 - TJ
客户参考信息: TSSOP8L/TSSOP8L-3D/TSSOP14L/TSSOP16L/TSSOP20L/
TSSOP24L/TSSOP28L/TSSOP30L/TSSOP48L/ETSSOP14L/
ETSSOP16L//ETSSOP20L/ETSSOP24L/ETSSOP28L/ETSSOP032/
TSSOP20L-3D/TSSOP048
样品接收日期: 2021年12月21日
测试周期: 2021年12月21日 - 2021年12月31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011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)、邻苯二甲酸丁苯酯(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。

基于所送样品012进行的测试, 镉、铅、汞、六价铬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(天津)有限公司
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Reabeca Zhou周艳
批准签署人

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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	TSN21-026535.011	黑色本体部分
SN2	TSN21-026535.012	银色引脚部分

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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, 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	011
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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测试项目	限值	单位	MDL	011
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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID , FSP_LANG_ID:1258637, 25

(2) 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。

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

测试方法: 参考IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, 采用ICP-OES和UV-Vis进行分析。

测试项目	限值	单位	MDL	012
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))▼	-	µg/cm ²	0.10	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID, FSP_LANG_ID:1258637, 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;



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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。

总氟,氯,溴,碘

测试方法: 参考ASTM D 7359-13方法. 采用燃烧离子色谱-CIC进行分析。

测试项目	单位	MDL	011
氟(F)	mg/kg	20	ND
氯(Cl)	mg/kg	20	ND
溴(Br)	mg/kg	20	ND
碘(I)	mg/kg	20	ND

备注:

(1) 这项测试由SGS上海化学实验室操作。

全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

测试方法: 参考CEN/TS 15968:2010方法, 采用LC/MSMS测试。

测试项目	CAS NO.	单位	MDL	011
全氟辛烷磺酸 (PFOS)及其衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS) [^]	1763-23-1	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	mg/kg	0.01	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐 ⁺		mg/kg	0.01	ND

备注:

(1) [^] 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)

(2) ⁺ 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)

邻苯二甲酸酯

测试方法: 参考EN 14372: 2004的方法测定, 采用GC-MS进行分析。



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测试项目	CAS NO.	单位	MDL	011
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%(w/w)	0.01	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/ 68515-49-1	%(w/w)	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.003	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.003	ND
邻苯二甲酸正戊基异戊基酯(nPIPP)	776297-69-9	%(w/w)	0.003	ND
邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%(w/w)	0.003	ND

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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。



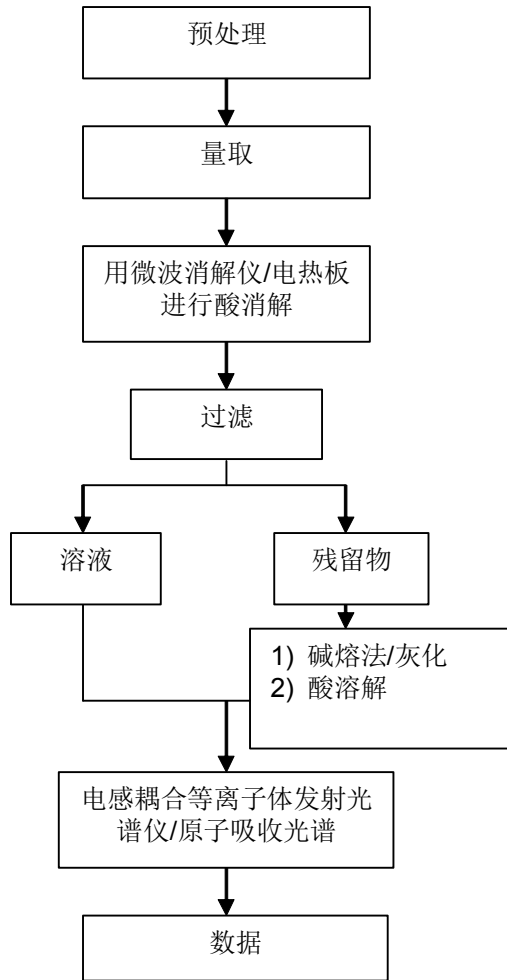
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附件

元素(IEC62321) 测试流程图

- 1) 分析人员: 王晶
- 2) 项目负责人: 王富强
- 3) 样品按照下述流程被完全消解



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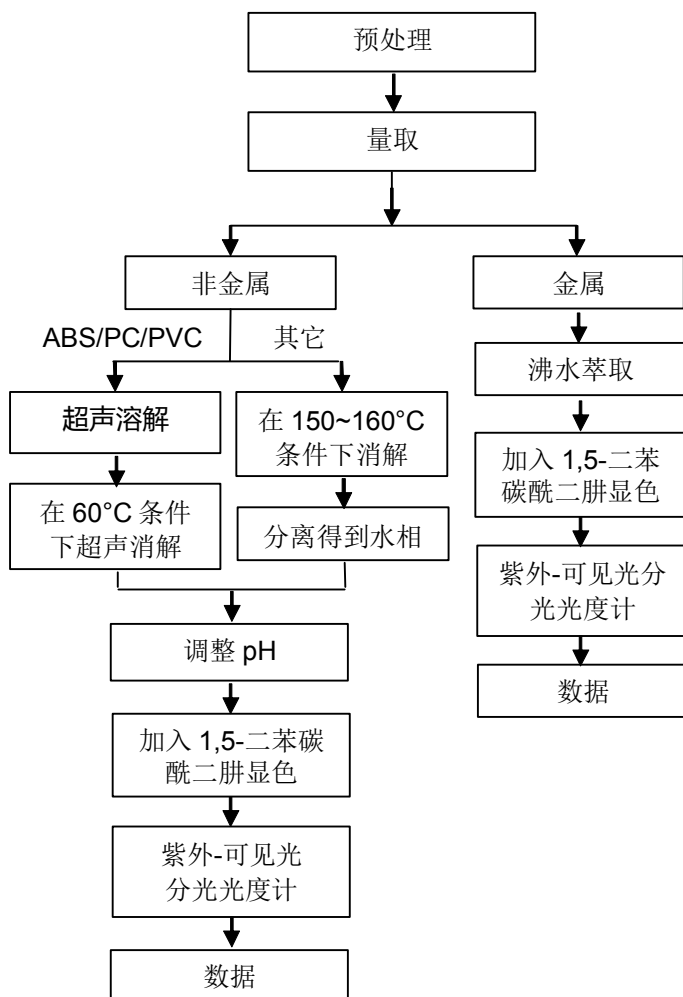
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六价铬测试流程图

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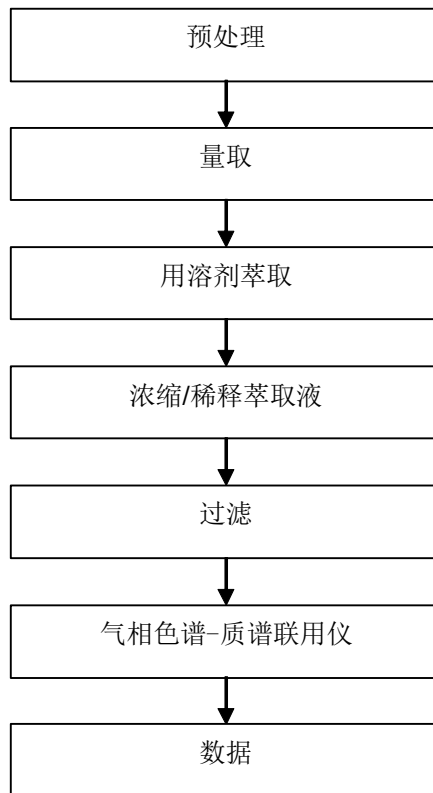
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附件

阻燃剂测试流程图

- 1) 分析人员: 张佳鑫
- 2) 项目负责人: 朱敏



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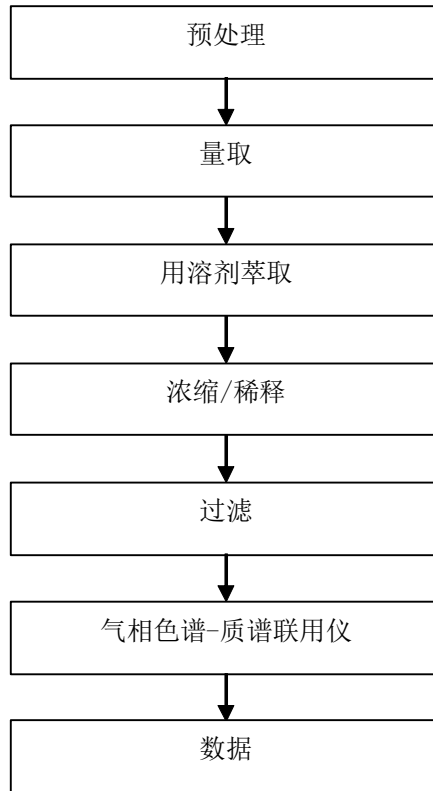
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附件

邻苯二甲酸酯测试流程图

- 1) 分析人员: 李晓阳
- 2) 项目负责人: 朱敏



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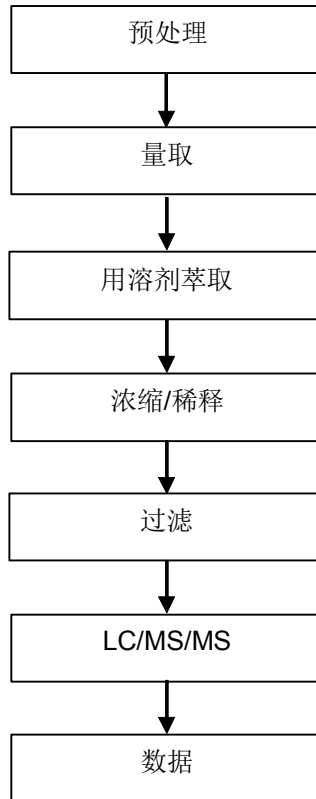
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附件

PFOS/PFOA 测试流程图

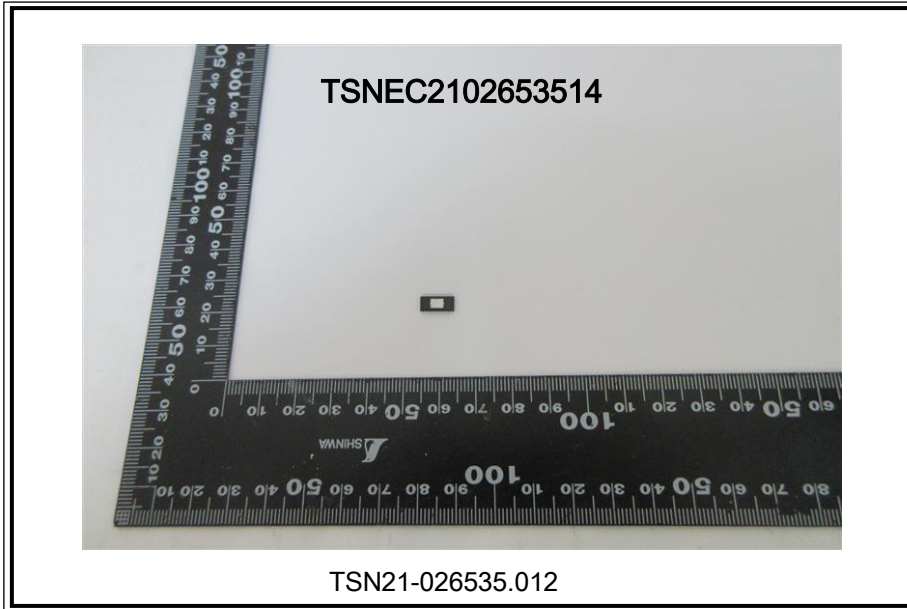
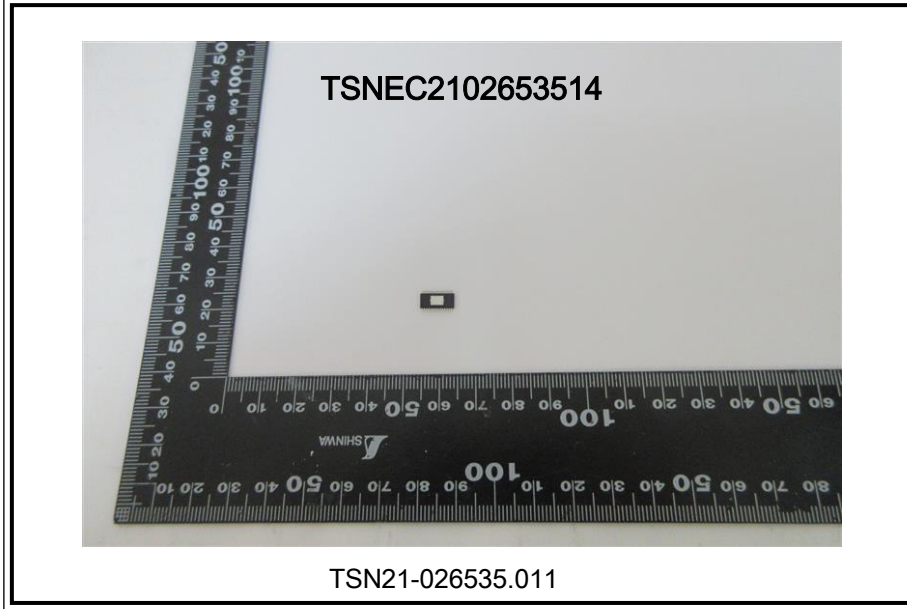
- 1) 分析人员: 李晓阳
- 2) 项目负责人: 朱敏



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