

测试报告 No. CANEC1517485602 日期: 2015年10月26日 第1页,共12页

深圳市凯琦佳科技股份有限公司

广东省深圳市龙岗区葵涌镇葵新社区知己工业园二期4#厂房201

以下测试之样品是由申请者所提供及确认:铝电解电容器

SGS工作编号: CP15-054089 - SZ

型号: 10000uF/400V

客户参考信息: FE20/FE22、FE21/FE23、FE26/FE28、FE50/FE52、FET2/FET4

FET5/FET7、FH20/FH22、FH50/FH52、FZT5/FZT7、FX20/FX22

BH20/BH50 、 PE20/PE50 、 PH20/PH50 、 PS20/PS50

料号: FE20400103A6D000

批号: 15090063

样品接收日期: 2015年10月14日

测试周期: 2015年10月14日 - 2015年10月20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

通标标准技术服务有限公司广州分公司授权签名

先登凤

Merry Lv吕爱凤 批准签署人

备注: 本报告是编号为CANEC1517485601报告的中文版本。



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测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN15-174856.001	带金色和白色印字的黑色塑胶(半成品)+浅棕色纸(半成品)+黑色物
		料(半成品)
SN2	CAN15-174856.002	灰色箔(半成品)+银灰色箔(半成品)+银色金属(半成品)"2C"+银
		色金属壳(半成品)+银色金属(半成品)"2E"

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

元素分析, 阻燃剂 & 邻苯二甲酸酯

测试方法: (1)参考IEC 62321-5:2013,用ICP-OES测定镉的含量

(2)参考IEC 62321-5:2013,用ICP-OES测定铅的含量 (3)参考IEC 62321-4:2013,用ICP-OES测定汞的含量

(4)参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量

(5)参考IEC 62321-6:2015,用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

(6)参考EN 14372:2004,用GC-MS测定邻苯二甲酸酯的含量

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))	1,000	mg/kg	2	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



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测试项目	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>
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
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)	1,000	mg/kg	30	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	30	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	30	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	30	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

元素分析

测试方法: (1)参考IEC 62321-5:2013,用ICP-OES测定镉的含量

(2)参考IEC 62321-5:2013,用ICP-OES测定铅的含量

(3)参考IEC 62321-4:2013,用ICP-OES测定汞的含量

(4)参考IEC 62321:2008,用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</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))	-	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) ◊点测试法:

阴性= 未检测到六价铬, 阳性= 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬



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阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg

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: 参照EN 14582:2007方法测定, 采用IC进行分析.

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

全氟辛烷磺酰基化合物(PFOS)

测试方法: 参照US EPA 3550C: 2007 方法测定, 采用HPLC-MS进行分析.

<u>测试项目</u>	<u>CAS NO.</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛烷磺及其衍生物 (PFOS) [^]	-	mg/kg	10	ND

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)。

多环芳香烃(PAHs)

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

<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
萘 (NAP)	91-20-3	mg/kg	0.1	ND
苊烯(ANY)	208-96-8	mg/kg	0.1	ND
苊(萘嵌戊烷) (ANA)	83-32-9	mg/kg	0.1	ND
芴 (FLU)	86-73-7	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND



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测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
屈 (CHR)	218-01-9	mg/kg	0.1	ND
茉并(b) 売蔥 (BbF)	205-99-2	ma/ka	0.1	ND

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本开(D)灭恩 (DDF)	205-99-2	mg/kg	0.1	טא
苯并 (j) 荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并 (e) 芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)花(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
7项多环芳香烃总和[苊烯(ANY), 苊(萘嵌戊烷) (ANA), 芴		mg/kg	-	ND

7项多环芳香烃总和[苊烯(ANY), 苊(萘嵌戊烷) (ANA), (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)] 18项多环芳香烃总和

mg/kg - ND

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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,且可能与原 大于 30 秒的: 接触皮肤)或类	支肤接触时间 材料 (长时间	未在1和2类规定 料,且可能与皮肤接 秒的材料(短期指	触的少于 30
		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),蒽 (ANT),荧蒽 (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	· ·		< 10	
18 PAH之和	<1	< 5	< 10	< 20	< 50

备注1: 结果基于混合样品的总重计算。

备注2: 样品的测试是基于申请人要求混合测试,报告中的混合测试结果不代表其中个别单一材质的含量,该测试 数据仅供参考。



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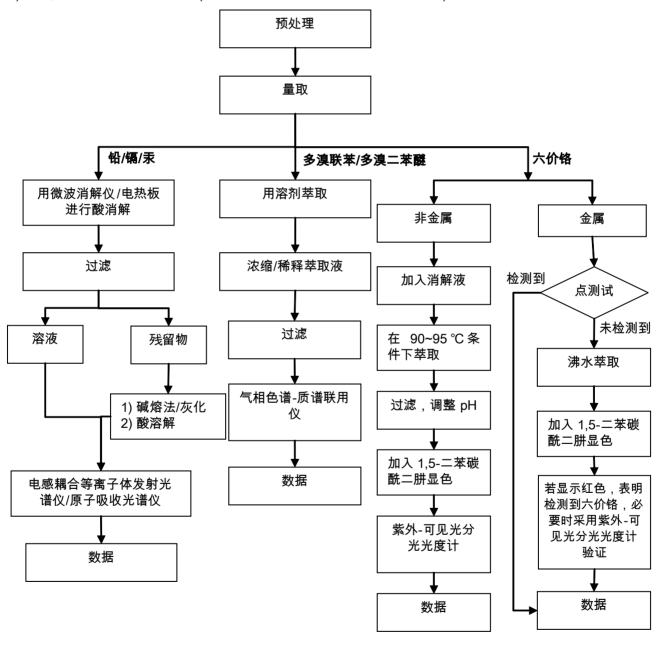
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附件

RoHS 测试流程图

1) 分析人员: 肖戈/ 胡香云2) 项目负责人: 汪丹/ 余晓璐

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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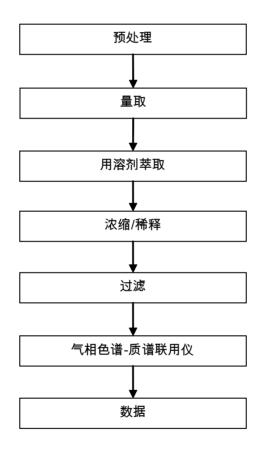
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附件

Phthalates 测试流程图

1) 分析人员: 胡香云 2) 项目负责人: 余晓璐





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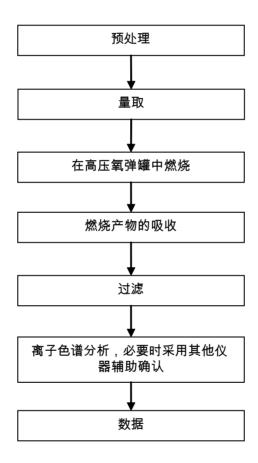
No. CANEC1517485602

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附件

Halogen 测试流程图

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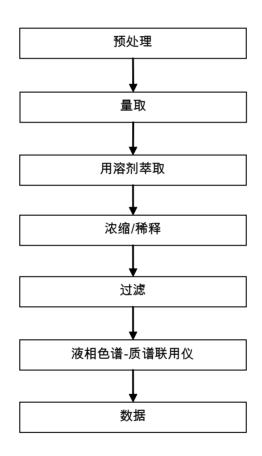
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附件

PFOA / PFOS 测试流程图

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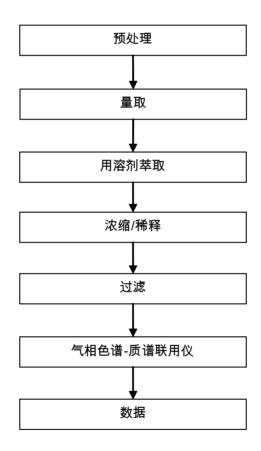
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PAHs 测试流程图

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