



No. SHAEC1107700302 日期: 2011年06月09日

昆山市创易电子有限公司 昆山市优比路367-1号

以下测试之样品是由申请者所提供及确认:醋酸布胶带

SGS工作编号: SP10-019082 - SUZ

型号: CY-361,CY-36

客户参考信息:

样品接收日期: 2011年06月04日

测试周期: 2011年06月04日 - 2011年06月09日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 演参见下一页 请参见下一页

结论: 基于所送样品进行的测试, 测试结果与欧盟RoHS指令2002/95/EC以及后续修正指

令的要求相符

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______ Fan Jingjie, JJ范晶捷

批准签署人

本报告是发布日期为2011年06月09日编号为SHAEC1107700301英文检测报告的中文译本。如有异议,以英文版本为准。

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测试结果:

样品部件外观描述:







SHA11-077003.001

带粘性黑色布

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



测试方法: 参照IEC 62321:2008:

(1) 用ICP-OES测定镉的含量.

(2) 用ICP-OES测定铅的含量.

(3) 用ICP-OES测定汞的含量.

(4) 用紫外-可见分光光度计比色法测定六价铬的含量.

(5) 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量.

<u>测试项目</u>	<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(CrVI)	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
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND

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日期: 2011年06月09日

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测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
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

备注:

(1)最大允许极限值引用自2002/95/EC RoHS指令和后继修正指令2005/618/EC.



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>001</u>
镉(Cd)	mg/kg	2	ND
汞 (Hg)	mg/kg	2	ND
磷(P)	mg/kg	10	46



测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析.

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	227
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND



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

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日期: 2011年06月09日

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测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>
邻苯二甲酸二丁酯(DBP)	%	0.003	ND
邻苯二甲酸丁酯苄酯(BBP)	%	0.003	ND
邻苯二甲酸二(2-乙基已基) (DEHP)	%	0.003	0.004
邻苯二甲酸二异壬酯 (DINP)	%	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	%	0.010	ND

备注:

- (1) DBP, BBP, DEHP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51条 (前身为2005/84/EC) 的要求:
 - i) 不允许DBP, BBP, DEHP质量浓度高于0.1%的可塑性物料用于玩具和儿童护理品.
 - ii) 当玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009

DINP, DNOP, DIDP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第52条(前身为2005/84/EC) 的要求:

- i) 不允许DINP, DNOP, DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品.
- ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场.

详细信息请参见Regulation (EC) No 552/2009

测试方法: 参照ZEK 01.2-08: 2008方法测定, 采用GC-MS进行分析.

测试项目	单位	<u>MDL</u>	<u>001</u>
多环芳香烃(PAHs)	mg/kg	-	0.3
萘 (NAP)	mg/kg	0.2	0.3
苊烯(ANY)	mg/kg	0.2	ND
苊(萘嵌戊烷) (ANA)	mg/kg	0.2	ND
芴 (FLU)	mg/kg	0.2	ND
菲 (PHE)	mg/kg	0.2	ND
蒽 (ANT)	mg/kg	0.2	ND
荧蒽 (FLT)	mg/kg	0.2	ND
芘 (PYR)	mg/kg	0.2	ND
苯并 (a) 蔥 (BaA)	mg/kg	0.2	ND
屈 (CHR)	mg/kg	0.2	ND
苯并 (b) 荧蒽 (BbF)	mg/kg	0.2	ND
苯并 (k)荧蒽 (BkF)	mg/kg	0.2	ND
苯并(a)芘 (BaP)	mg/kg	0.2	ND

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日期: 2011年06月09日

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测试项目 单位 MDL 001 茚苯(1,2,3-c,d)芘 (IPY) ND mg/kg 0.2 二苯并(a,h)蒽(DBA) 0.2 ND mg/kg 苯并(g,h,i) 范(二萘嵌苯) (BPE) ND mg/kg 0.2

参数	1 类	2 类	3 类
	设计意图为放入口中的材料,以及36个月以下幼儿的玩具上与皮肤接触的材料	未在1类规定中涵盖的材料,且可能与皮肤长期接触的材料(接触时间大于30秒)	未在1和2类规定中涵盖的材料,且可能与皮肤短期接触的材料(接触时间小于等于30秒)
BaP含量 (mg/kg)	不得检测到(< 0.2)***	1	20
16种 PAH (EPA)总 量(mg/kg)**	不得检测到(< 0.2)***	10	200

备注:** = 仅物质浓度大于0.2ppm时才用于计算16项PAHs总量

*** = 若设计意图为放入口中的材料的测试结果大于1类限值但不超过2类限值,需再依据DIN EN 1186ff及 § 64 LFGB 80.30-1进行PAH的迁移性测试并根据相关食品法规进行判定。

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

 测试项目
 单位
 MDL
 001

 四溴双酚-A
 mg/kg
 10
 ND



测试方法: 以溶剂萃取法测定,采用GC-MS进行分析.

 测试项目
 单位
 MDL
 001

 富马酸二甲酯(DMF)
 mg/kg
 0.1
 ND

备注:

(1) 最大允许极限值引用自欧盟指令2009/251/EC中的要求.



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日期: 2011年06月09日

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

测试项目	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	mg/kg	10	ND
全氟辛酸 (PFOA)	mg/kg	10	ND

备注:

- (1) PFOS 参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第53条 (前身为2006/122/EC)
 - (i) PFOS作为纯物质或者制备原料时,若浓度大于等于0.005%(重量)则不可以投放市场。
 - (ii) PFOS用于半成品、成品或零部件时,若浓度大于等于0.1%(参照明确含有PFOS结构或者微结构部分重量计算)则不可以投放市场;对于纺织品或其它涂层材料,若PFOS的含量大于或等于1µg/m²(相对于涂层部分)则不可以投放市场.

详细信息请参见Regulation (EC) No 552/2009

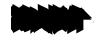
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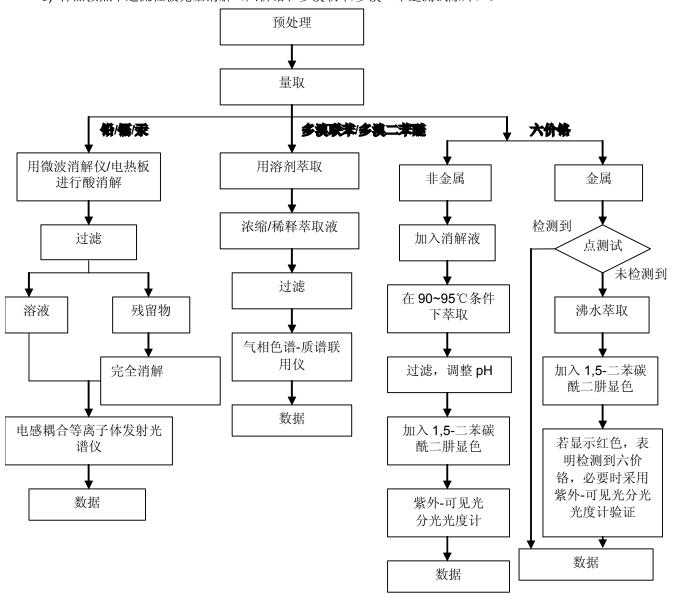
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附件

RoHS 對试流程图

- 1) 分析人员: 肖飞/左克春/方何裔/林以琳
- 2) 项目负责人: 张春华/徐亮/岳林禾
- 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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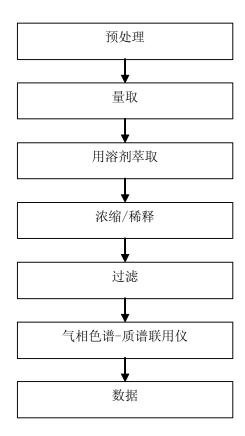


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Phthalates 测试流程图

1) 分析人员: 汪培承 2) 项目负责人: 刘娟



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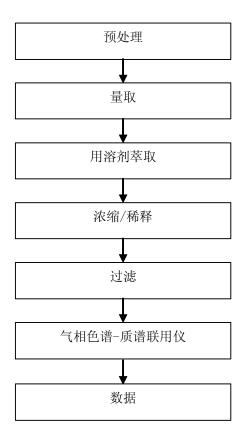


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PAHs 對试液程图

分析人员: 黄婷
 项目负责人: 岳林禾



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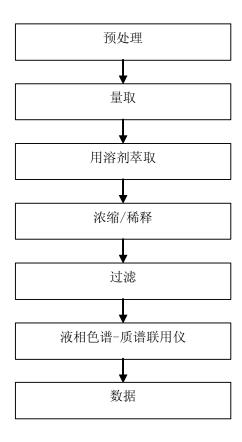


日期: 2011年06月09日

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PFOS/PFOA 测试流程图

1) 分析人员: 李晓茹 2) 项目负责人: 杜柏桥



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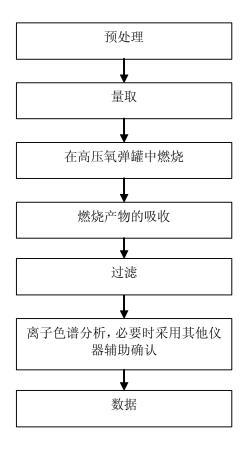


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Halogen 测试流程图

1) 分析人员: 巩东侠 2) 项目负责人: 江海飞



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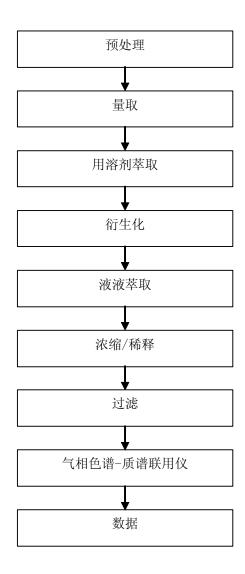


日期: 2011年06月09日

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TBBP-A 製试液程图

1) 分析人员: 徐刚 2) 项目负责人: 岳林禾



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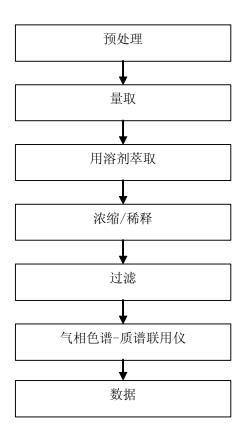


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DMF(富马酸二甲酯)夠试療程图

分析人员: 胡娟
 项目负责人: 岳林禾



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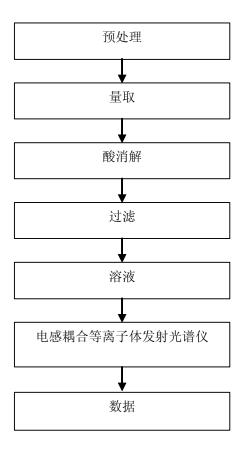


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元素對试液程图

- 1) 分析人员:左克春/肖飞
- 2) 项目负责人:张春华



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