

## 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第1页,共9页

杭州东兴电讯材料有限公司  
浙江省临安市玲珑工业区庆山路208号

以下测试之样品是由申请者所提供及确认: 铝箔麦拉带

SGS工作编号: SP11-038017 - SH

样品接收日期: 2011年12月21日

测试周期: 2011年12月21日 - 2011年12月26日

测试要求: 根据客户要求,

(i) 基于欧洲化学品管理署截止2011年6月20日公布的供授权审议的高关注物质候选清单(根据欧盟第1907/2006号REACH法规), 对53种高关注物质进行筛分测试.

(ii) 基于欧洲化学品管理署于2011年8月29日公布的接受公众咨询的潜在高关注物质清单(根据欧盟第1907/2006号REACH法规), 对20种咨询中的高关注物质进行筛分测试.

测试结果: 请参见下一页

总结:

根据具体的测试范围和分析技术, 样品中测试的高关注物质浓度都 $\leq$ 0.1%.	PASS
---	------

通标标准技术服务有限公司  
授权签名



Fan Jingjie, JJ范晶捷  
批准签署人

本报告是发布日期为2011年12月26日编号为SHAEC1120643201英文检测报告的中文译本。如有异议, 以英文版本为准。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



## 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第2页,共9页

### 备注:

- (1) 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

[http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp)

这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

- (2) 关于物品:

根据欧盟第1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第57条中的标准并根据第59条第一款被确定, 物品的任何欧洲制造商或进口商应根据第7条第4款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过1吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过0.1% 的浓度。

欧盟第1907/2006 (EC) 号法规第33条规定, 含有满足第57条中的标准并根据第59条第一款被确定且质量分数大于0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

SGS采用ECHA对物品中SVHC的解释, 除非另有说明。详细的解释请见下列网址:

[http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS\\_SVHC-paper-EN-11.pdf](http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf)

- (3) 关于材料:

报告中的测试结果是基于测试样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的SVHC浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

- (4) 关于物质和配制品:

如果样品中高关注物质的浓度超过0.1%(w/w)和/或欧盟第1272/2008号CLP法规和欧盟委员会条例第790/2009号中设定的特殊浓度限值, 建议客户根据欧盟第1907/2006号REACH法规对有关高关注物质准备安全数据表(SDS)以符合供应链传递信息的义务, 如:

- 根据欧盟第1272/2008号CLP法规被列为有害物质。

- 根据危险混合物指令1999/45/EC或欧盟第1272/2008号CLP法规被列为危险混合物, 而其浓度大于或等于危险混合物指令1999/45/EC第3条(3)中规定的限制数值或欧盟第1272/2008号CLP法规附件六第3部分列出的较低值;或

- 根据危险混合物指令1999/45/EC并未列为危险混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物(即非气体混合物)中其浓度 $\geq 1\%$ (w/w)或在气体混合物中占体积 $\geq 0.2\%$ , 或

(b) PBT或vPvB物质, 在固体或液体混合物(即非气体混合物)中浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质(除上述以外的原因)在非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或

(d) 设有欧洲范围内工作场所接触限值的物质。

- (5) 如果样品中SVHC的测试结果超过报告限, 建议客户进一步定量分析检测含有SVHC的组分并且得到SVHC物质的准确浓度。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



## 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第3页,共9页

### 测试样品:

#### 样品部件外观描述:

样品编号	SGS样品ID	描述
1	SHA11-206432.001	银色复合膜

### 测试方法:

SGS内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用 ICP-OES、GC-MS、UV-VIS、比色法/HPLC分析.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



# 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第4页,共9页

测试结果:(候选清单中的高关注物质)

物质名称	CAS No.	EC No.	001 浓度 (%)	RL (%)
1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	276-158-1	ND	0.050
1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	271-084-6	ND	0.050
1,2,3-三氯丙烷	96-18-4	202-486-1	ND	0.050
1-甲基-2-吡咯烷酮	872-50-4	212-828-1	ND	0.050
2,4-二硝基甲苯	121-14-2	204-450-0	ND	0.050
乙二醇乙醚	110-80-5	203-804-1	ND	0.050
乙二醇乙醚醋酸酯	111-15-9	203-839-2	ND	0.050
乙二醇单甲醚	109-86-4	203-713-7	ND	0.050
4,4'-二氨基二苯甲烷(MDA)	101-77-9	202-974-4	ND	0.050
2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	201-329-4	ND	0.050
丙烯酰胺	79-06-01	201-173-7	ND	0.050
C10-13 氯代烃(短链氯化石蜡)	85535-84-8	287-476-5	ND	0.050
硅酸铝, 耐火陶瓷纤维*	650-017-00-8 (Index no.)	-	ND	0.005
重铬酸铵*	7789-09-5	232-143-1	ND	0.005
葱	120-12-7	204-371-1	ND	0.050
葱油*	90640-80-5	292-602-7	ND	0.050
葱油, 葱糊*	90640-81-6	292-603-2	ND	0.050
葱油, 葱糊, 葱馏分*	91995-15-2	295-275-9	ND	0.050
葱油, 葱糊, 轻油*	91995-17-4	295-278-5	ND	0.050
葱油, 含葱量少*	90640-82-7	292-604-8	ND	0.050

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



测试报告  
(SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第5页,共9页

物质名称	CAS No.	EC No.	001 浓度 (%)	RL (%)
邻苯二甲酸丁苄酯 (BBP)	85-68-7	201-622-7	ND	0.050
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	204-211-0	ND	0.050
氧化双三丁基锡 (TBTO)	56-35-9	200-268-0	ND	0.050
硼酸*	10043-35-3 11113-50-1	233-139-2 234-343-4	ND	0.005
铬酸, 铬酸及重铬酸低聚物和重铬酸*	7738-94-5 13530-68-2	231-801-5 236-881-5	ND	0.005
三氧化铬*	1333-82-0	215-607-8	ND	0.005
碳酸钴*	513-79-1	208-169-4	ND	0.005
乙酸钴*	71-48-7	200-755-8	ND	0.005
二氯化钴*	7646-79-9	231-589-4	ND	0.005
硝酸钴*	10141-05-6	233-402-1	ND	0.005
硫酸钴*	10124-43-3	233-334-2	ND	0.005
五氧化二砷*	1303-28-2	215-116-9	ND	0.005
三氧化二砷*	1327-53-3	215-481-4	ND	0.005
邻苯二甲酸二丁酯(DBP)	84-74-2	201-557-4	ND	0.050
邻苯二甲酸二异丁酯	84-69-5	201-553-2	ND	0.050
无水四硼酸钠*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$	25637-99-4 3194-55-6	247-148-4 221-695-9	ND	0.050
联氨	7803-57-8 302-01-2	206-114-9	ND	0.050
铬酸铅*	7758-97-6	231-846-0	ND	0.005
钼铬红(C.I.颜料红104)*	12656-85-8	235-759-9	ND	0.005

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



测试报告  
(SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第6页,共9页

物质名称	CAS No.	EC No.	001 浓度 (%)	RL (%)
砷酸氢铅*	7784-40-9	232-064-2	ND	0.005
铅铬黄(C.I.颜料黄34)*	1344-37-2	215-693-7	ND	0.005
沥青, 煤焦油, 高温*	65996-93-2	266-028-2	ND	0.050
铬酸钾*	7789-00-6	232-140-5	ND	0.005
重铬酸钾*	7778-50-9	231-906-6	ND	0.005
铬酸钠*	7775-11-3	231-889-5	ND	0.005
重铬酸钠*	7789-12-0 10588-01-9	234-190-3	ND	0.005
铬酸锶*	7789-06-2	232-142-6	ND	0.005
水合硼酸钠*	12267-73-1	235-541-3	ND	0.005
三氯乙烯	79-01-6	201-167-4	ND	0.050
三乙基砷酸酯*	15606-95-8	427-700-2	ND	0.005
磷酸三(2-氯乙基)酯	115-96-8	204-118-5	ND	0.050
氧化锆硅酸铝, 耐火陶瓷纤维*	650-017-00-8 (Index no.)	-	ND	0.005

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.



# 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第7页,共9页

测试结果:(咨询清单中的高关注物质)

物质名称	CAS No.	EC No.	001 浓度 (%)	RL (%)
1,2-二氯乙烷	107-06-2	203-458-1	ND	0.050
4,4'-二氨基-3,3'-二氯二苯甲烷 (MOCA)	101-14-4	202-918-9	ND	0.050
2-甲氧基苯胺	90-04-0	201-963-1	ND	0.050
对特辛基苯酚	140-66-9	205-426-2	ND	0.050
硅酸铝, 耐火陶瓷纤维 (RCF)*	-	-	ND	0.005
砷酸*	7778-39-4	231-901-9	ND	0.005
乙二醇二甲醚	111-96-6	203-924-4	ND	0.050
邻苯二甲酸二甲氧基乙酯	117-82-8	204-212-6	ND	0.050
砷酸钙*	7778-44-1	231-904-5	ND	0.005
铬酸铬*	24613-89-6	246-356-2	ND	0.005
甲醛与苯胺的低聚物	25214-70-4	500-036-1	ND	0.050
叠氮化铅*	13424-46-9	236-542-1	ND	0.005
苦味酸铅*	6477-64-1	229-335-2	ND	0.005
史蒂芬酸铅*	15245-44-0	239-290-0	ND	0.005
N,N-二甲基乙酰胺(DMAC)	127-19-5	204-826-4	ND	0.050
氢氧化铬酸锌*	49663-84-5	256-418-0	ND	0.005
酚酞	1977-9-8	201-004-7	ND	0.050
氢氧化铬酸锌钾*	11103-86-9	234-329-8	ND	0.005
砷酸铅*	3687-31-8	222-979-5	ND	0.005
氧化锆硅酸铝, 耐火陶瓷纤维 (Zr-RCF)*	-	-	ND	0.005

注释:

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



## 测试报告 (SVHC)

No. SHAEC1120643202

日期: 2011年12月26日 第8页,共9页

(1) RL = 报告极限值, 所有RL是基于均一材质的测试。

ND = 未检出 (< RL), ND针对化合物。

(2)  $\Delta$  六溴环十二烷(HBCDD) 的非对映异构体 $\alpha$ -HBCDD、 $\beta$ -HBCDD、 $\gamma$ -HBCDD的CAS NO分别为134237-50-6、134237-51-7、134237-52-8。

(3) \* 测试结果是由选定的元素或标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站:

[www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

硼酸、无水四硼酸钠和水合硼酸钠的结果由ICP-OES测试的水提取的硼元素、钠元素结果换算得出。

砷酸及其盐的结果由ICP-OES测试的重金属元素砷的结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷、铅、钠、铬、铬(VI)、硅、铝、锆、硼、钾和铈), 除了钼的RL= 0.0005%。

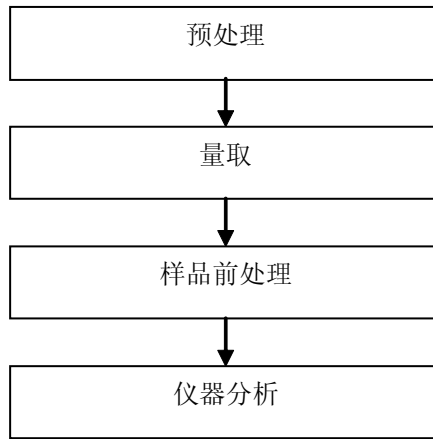
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



附件

### SVHC 测试流程图

- 1) 分析人员: 孙庆艳/马彩丽
- 2) 项目负责人: 廖晓全



样品照片:



此照片仅限于随SGS正本报告使用

\*\*\* 报告完 \*\*\*

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

