

测试报告

No. CANEC1625518762

日期: 2017年01月06日 第1页,共14页

昆山汉品电子有限公司
中国昆山市玉山镇城北五联路698号

以下测试之样品是由申请者所提供及确认: 双面胶带

SGS工作编号: CP16-077339 - GZ
测试样品信息: XPH60303
客户参考信息: 见备注
样品接收日期: 2016年12月26日
测试周期: 2016年12月26日 - 2017年01月04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)、邻苯二甲酸丁苄酯(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。

通标标准技术服务有限公司广州分公司
授权签名

吕爱凤

Merry Lv 吕爱凤
批准签署人

备注: 本报告是编号为CANEC1625518761报告的中文版本。



测试报告

No. CANEC1625518762

日期: 2017年01月06日 第2页,共14页

测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|------------|
| SN1 | CAN16-255187.009 | 带双面粘性的浅灰色膜 |

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:
- (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IEC 62321-8 :2013(111/321/CD), 用GC-MS测定邻苯二甲酸酯的含量。

| 测试项目 | 限值 | 单位 | MDL | 009 |
|----------------|-------|-------|-----|-----|
| 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 |
| 多溴二苯醚之和(PBDEs) | 1,000 | mg/kg | - | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND |



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

测试报告

No. CANEC1625518762

日期: 2017年01月06日 第3页,共14页

| 测试项目 | 限值 | 单位 | MDL | 009 |
|-----------------------|------|-------|-----|-----|
| 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) | 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。

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

| 测试项目 | 单位 | MDL | 009 |
|--------|-------|-----|-----|
| 氟 (F) | mg/kg | 50 | ND |
| 氯 (Cl) | mg/kg | 50 | 60 |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996方法测定, 采用GC-MS&HPLC-MS进行分析。

| 测试项目 | 单位 | MDL | 009 |
|--------|-------|-----|-----|
| 四溴双酚-A | mg/kg | 10 | ND |

富马酸二甲酯(DMF)

测试方法: SGS 内部方法 (GZTC CHEM-TOP-095), 用GC-MS分析。



测试报告

No. CANEC1625518762

日期: 2017年01月06日 第4页,共14页

| 测试项目 | 限值 | 单位 | MDL | 009 |
|-------------|-----|-------|-----|-----|
| 富马酸二甲酯(DMF) | 0.1 | mg/kg | 0.1 | ND |
| 评论 | | | | 符合 |

备注:

备注: 最大允许极限值引用REACH法规(EC) No 1907/2006附录XVII的修正指令(EU) No 412/2012指令(以往由2012/48/EU监管)

六溴环十二烷(HBCDD)

测试方法: 参考 IEC 62321:2008, 用 GC-MS 分析。

| 测试项目 | 单位 | MDL | 009 |
|---------------|-------|-----|-----|
| 六溴环十二烷(HBCDD) | mg/kg | 10 | ND |

邻苯二甲酸盐(或酯)

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

| 测试项目 | CAS NO. | 单位 | MDL | 009 |
|------------------------|----------------------------|--------|-------|-----|
| 邻苯二甲酸二丁酯 (DBP) | 84-74-2 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸丁苄酯 (BBP) | 85-68-7 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 117-81-7 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二异壬酯 (DINP) | 28553-12-0 / 68515-48-0 | %(w/w) | 0.010 | ND |
| 邻苯二甲酸二正辛酯 (DNOP) | 117-84-0 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二异癸酯 (DIDP) | 26761-40-0 / 68515-49-1 | %(w/w) | 0.010 | ND |
| 邻苯二甲酸二甲酯 (DMP) | 131-11-3 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二乙酯 (DEP) | 84-66-2 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二异丁酯 (DIBP) | 84-69-5 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二壬酯 (DNP) | 84-76-4 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二异辛酯 (DIOP) | 27554-26-3 | %(w/w) | 0.010 | ND |
| 邻苯二甲酸二丙酯 (DPrP) | 131-16-8 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二环己酯 (DCHP) | 84-61-7 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二正戊酯 (DnPP) | 131-18-0 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二苄酯 (DBzP) | 523-31-9 | %(w/w) | 0.003 | ND |
| 邻苯二甲酸二苯酯 (DPhP) | 84-62-8 | %(w/w) | 0.003 | ND |



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

测试报告

No. CANEC1625518762

日期: 2017年01月06日 第5页,共14页

| 测试项目 | CAS NO. | 单位 | MDL | 009 |
|------------------|---------|--------|-------|-----|
| 邻苯二甲酸二正己酯 (DnHP) | 84-75-3 | %(w/w) | 0.003 | 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
- (2) 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DINP, DNOP, DIDP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.

全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)

测试方法: 参考CEN/TS15968:2010方法, 用 LC-MS分析。

| 测试项目 | CAS NO. | 单位 | MDL | 009 |
|---------------------|----------|-------|-----|-----|
| 全氟辛酸(PFOA) | 335-67-1 | mg/kg | 10 | ND |
| 全氟辛烷磺酸及其衍生物 (PFOS)^ | - | mg/kg | 10 | ND |

备注:

- (1) ^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)。



备注:

| | | | | |
|----------|----------|------------|------------|------------|
| XPH60052 | XPH6T003 | XPH6PT*2 | XPH60103** | XPH60R07** |
| XPH60102 | XPH6TA03 | XPH6PT03 | XPH60153** | XPH60LB2** |
| XPH60152 | XPH6***3 | XPH6PT13 | XPH60203** | XPH60LB3** |
| XPH60202 | XPH60GR3 | XPH6PT*3 | XPH60253** | XPH60*02** |
| XPH60252 | XPH60R02 | XPH6PT14 | XPH60303** | XPH60*03** |
| XPH60302 | XPH60R03 | XPH6PT04 | XPH60503** | XPH60G02** |
| XPH60402 | XPH60*02 | XPH6PT*4 | XPH60603** | XPH60G03** |
| XPH60502 | XPH60*03 | XPHMC0T4 | XPH60703** | XPH6PT02** |
| XPH60702 | XPH60S02 | XPHV05T4 | XPH61003** | XPH6PT12** |
| XPH60802 | XPH60S03 | XPH60052** | XPH6T003** | XPH6PT*2** |
| XPH61002 | XPH60A02 | XPH60102** | XPH6TA03** | XPH6PT03** |
| XPH6***2 | XPH60C03 | XPH60152** | XPH6***3** | XPH6PT13** |
| XPH60103 | XPH60R07 | XPH60202** | XPH60GR3** | XPH6PT*3** |
| XPH60153 | XPH60LB2 | XPH60252** | XPH60R02** | XPH6PT14** |
| XPH60203 | XPH60LB3 | XPH60302** | XPH60R03** | XPH6PT04** |
| XPH60253 | XPH60*02 | XPH60402** | XPH60*02** | XPH6PT*4** |
| XPH60303 | XPH60*03 | XPH60502** | XPH60*03** | XPHMC0T4** |
| XPH60503 | XPH60G02 | XPH60702** | XPH60S02** | XPHV05T4** |
| XPH60603 | XPH60G03 | XPH60802** | XPH60S03** | |
| XPH60703 | XPH6PT02 | XPH61002** | XPH60A02** | |
| XPH61003 | XPH6PT12 | XPH6***2** | XPH60C03** | |

备注:**表示 0~9或A~Z中的任意一个



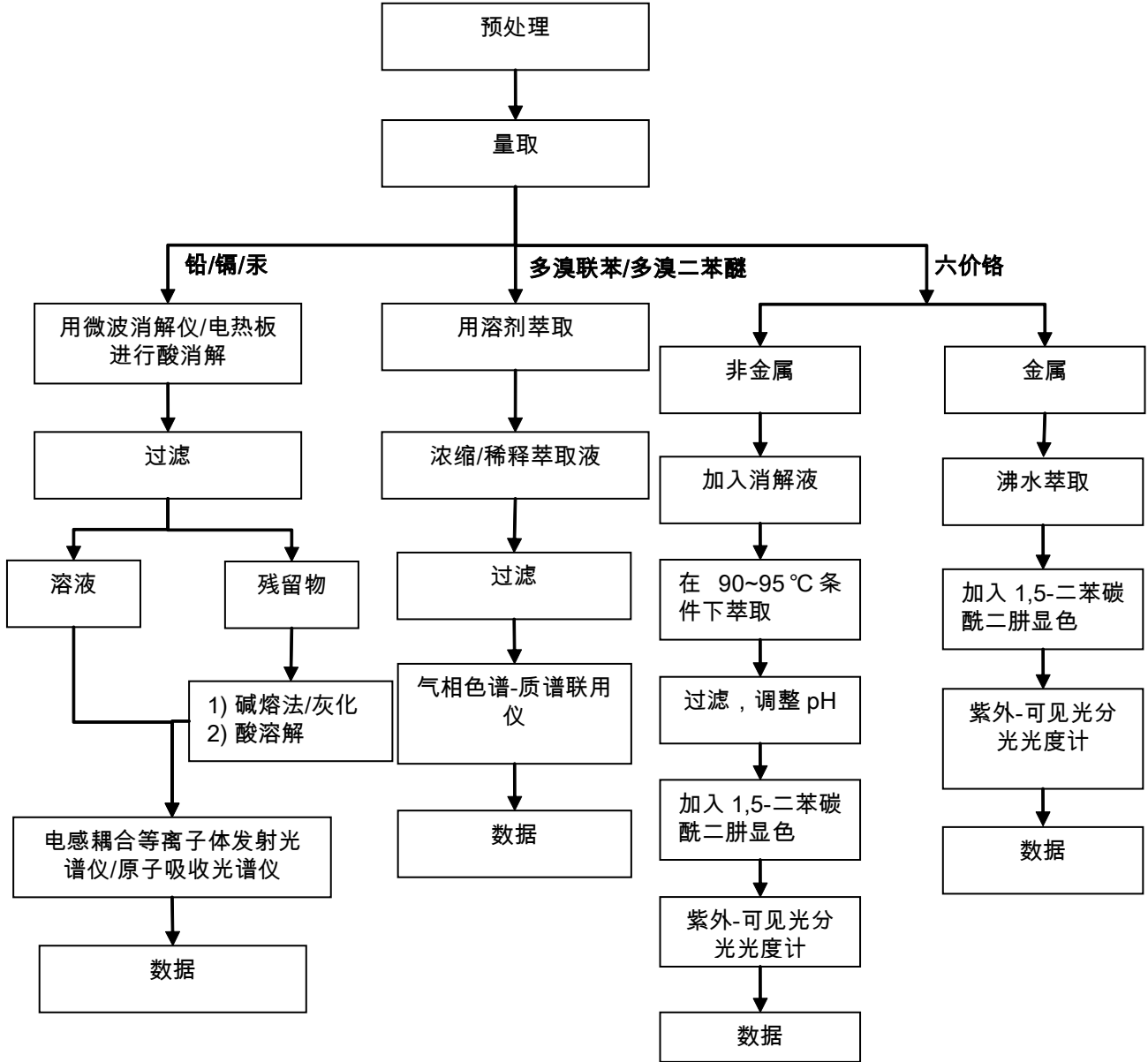
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员：张梓路 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 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)。



Unless otherwise agreed in writing, 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/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

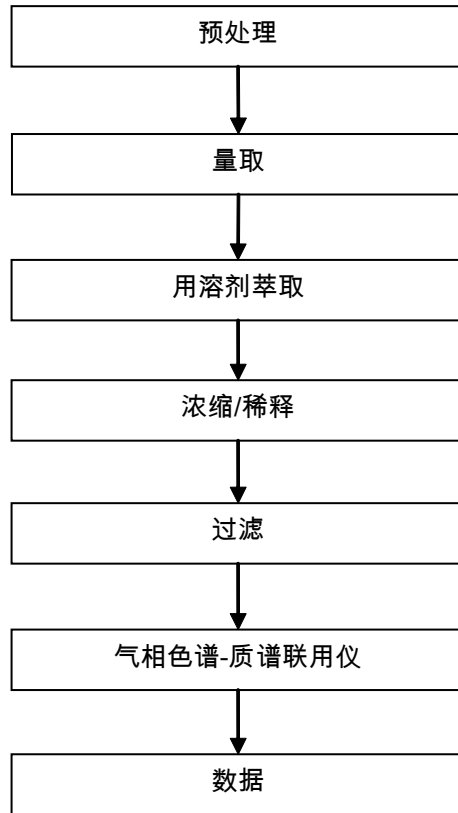
SGS-CSTC 标准检测技术有限公司 广州分公司
Guangzhou Branch Testing Center Chemical Laboratory

198 Kezhu Road, Sciotech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgs.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

附件

Phthalates 测试流程图

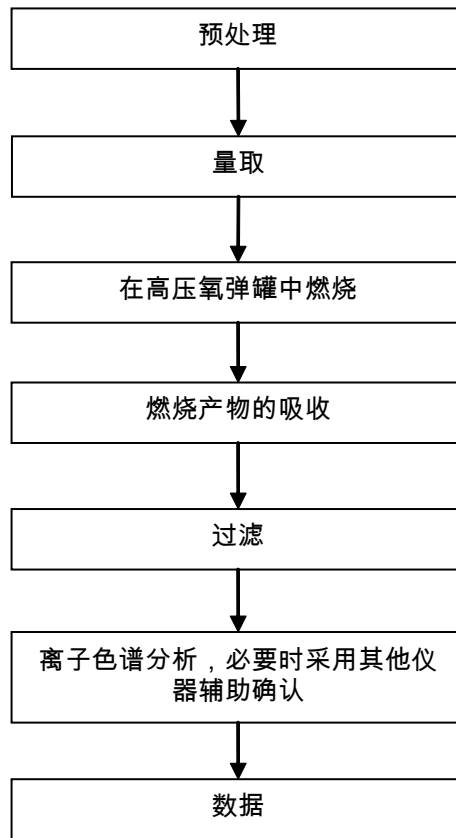
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



附件

Halogen 测试流程图

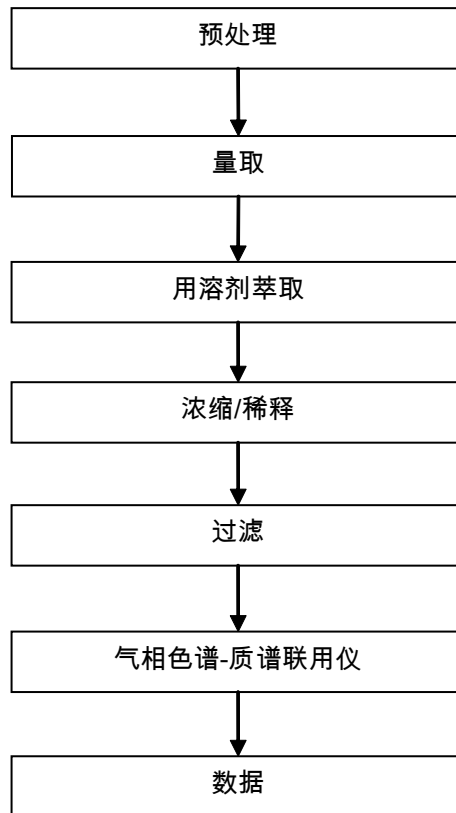
- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



附件

HBCDD 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



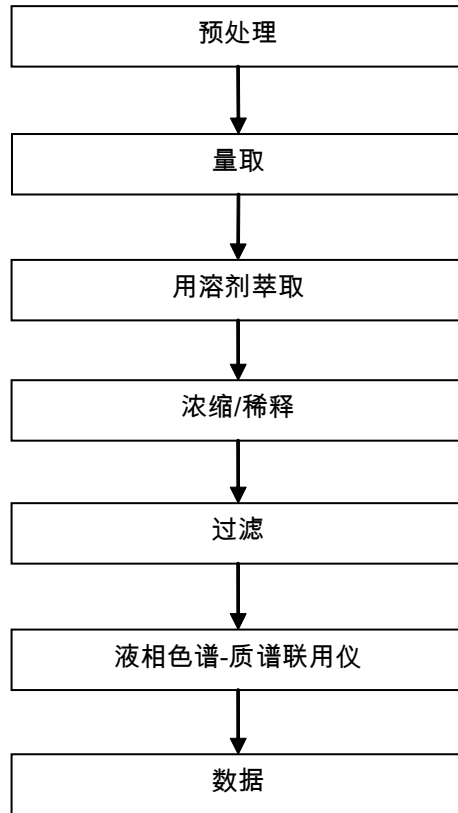
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

附件

PFOA / PFOS 测试流程图

- 1) 分析人员 : 王志红
- 2) 项目负责人 : 刘琼



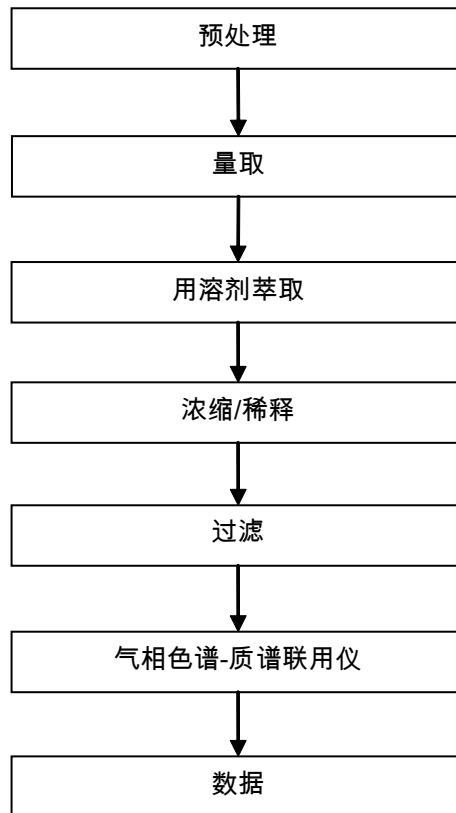
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

附件

Dimethyl Fumarate 测试流程图

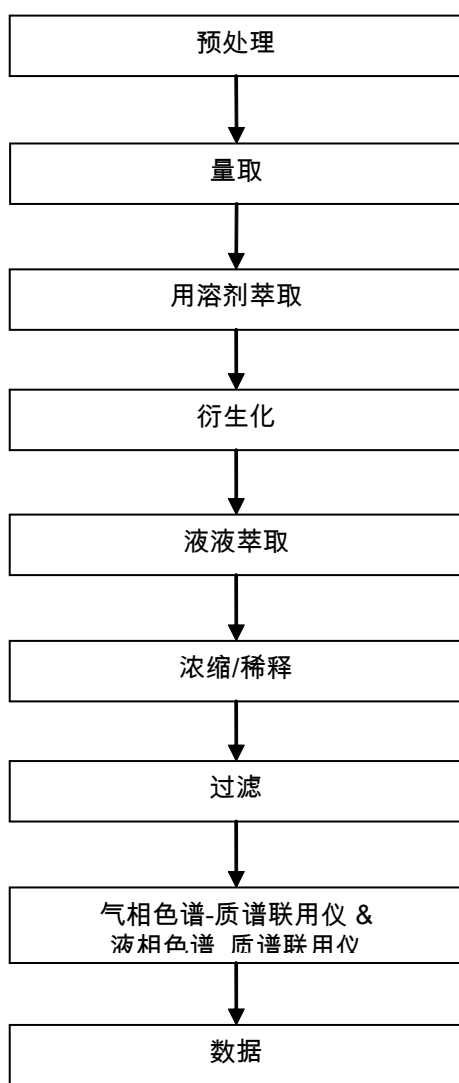
- 1) 分析人员：胡香云
- 2) 项目负责人：刘琼



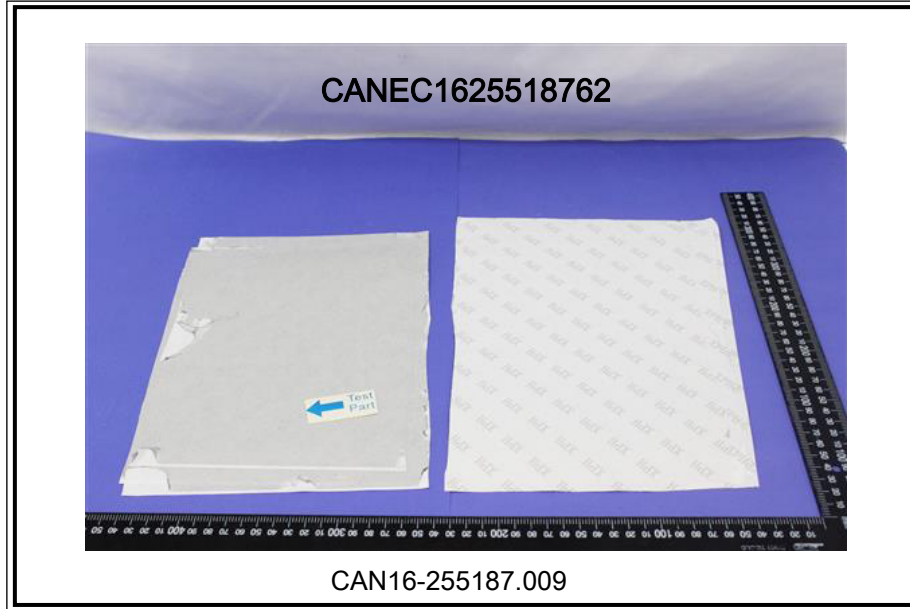
附件

TBBP-A 测试流程图

- 1) 分析人员：张金花
- 2) 项目负责人：刘琼



样品照片:



此照片仅限于随SGS正本报告使用

*** 报告完 ***