170900340938

# 测试报告

No. SHAEC2128122318　　日期: 2021年12月31日　第1页,共13页

苏州奥美材料科技有限公司
中国苏州高新区华山路158-30号

以下测试之样品是由申请者所提供及确认：聚碳酸酯薄膜及片材

| | |
|---|---|
| SGS工作编号： | SP21-039984 - SUZ |
| 型号： | V42B |
| 客户参考信息： | V11, V42, V32, V41, V21,V31,V61,V71,V11-P,V42-P, V31-P,V32-P, V41-P, V21-P,V61-P,V71-P，V11B, V52B, V32B, V41B, V21B,V31B,V61B,V71B,V11B-P,V42B-P, V32B-P, V31B-P,V41B-P, V21B-P,V61B-P,V71B-P,22DB2-013，U42B、U52B、U(a)B、U(a)B-1、U(a)、U(a)-P、U(a)B-P , OMF(a), BLC(a)(b)F, RHA(a).<br>其中的a代表00-99数字， 00-99代表产品的表面纹理。b代表000-999数字，000-999代表客户指定。 |
| 样品接收日期： | 2021年12月24日 |
| 测试周期： | 2021年12月24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-乙基已基)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。 |

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授权签名

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A1FDB028

Jenny Lan兰柳珍
批准签署人

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Member of the SGS Group (SGS SA)

测试结果 :

测试样品描述 :

| 样品编号 | SGS样品ID | 描述 |
|---|---|---|
| SN1 | SHA21-281223.003 | 黑色片材 |

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 62321-4:2013+AMD1:2017， IEC 62321-5:2013，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 | *003* |
|---|---|---|---|---|
| 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 |
| 四溴二苯醚 | - | mg/kg | 5 | ND |

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| 测试项目 | 限值 | 单位 | MDL | 003 |
|---|---|---|---|---|
| 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-乙基已基)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。

**短链氯化石蜡(SCCP)**

测试方法： 参照US EPA 3550C: 2007, 采用GC-ECD / GC-NCI-MS 进行分析。

| 测试项目 | 单位 | MDL | 003 |
|---|---|---|---|
| 短链氯化石蜡(SCCP) ($C_{10}$-$C_{13}$) | mg/kg | 50 | ND |

**全氟辛烷磺酸及其衍生物(PFOS)**

测试方法： 参考NPR CEN/TS 15968：2010方法，采用HPLC-MS进行分析。

| 测试项目 | CAS NO. | 单位 | MDL | 003 |
|---|---|---|---|---|
| 全氟辛烷磺酸 (PFOS) ^ | 1763-23-1 | mg/kg | 10 | 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

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No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)

**多环芳香烃(PAHs)**

测试方法： 参考AfPS GS 2019:01 PAK方法测试，采用 GC-MS进行分析。

| 测试项目 | 单位 | MDL | 003 |
|---|---|---|---|
| 苯并(a)芘 (BaP) | mg/kg | 0.1 | ND |
| 苯并(e)芘 (BeP) | mg/kg | 0.1 | ND |
| 苯并(a)蒽 (BaA) | mg/kg | 0.1 | ND |
| 苯并(b)荧蒽 (BbF) | mg/kg | 0.1 | ND |
| 苯并(j)荧蒽 (BjF) | mg/kg | 0.1 | ND |
| 苯并 (k)荧蒽 (BkF) | mg/kg | 0.1 | ND |
| 䓛 (CHR) | mg/kg | 0.1 | ND |
| 二苯并(a,h)蒽(DBA) | mg/kg | 0.1 | ND |
| 苯并(g,h,i)苝(二萘嵌苯) (BPE) | mg/kg | 0.1 | ND |
| 茚苯(1,2,3-c,d)芘 (IPY) | mg/kg | 0.1 | ND |
| 菲 (PHE) | mg/kg | 0.1 | ND |
| 芘 (PYR) | mg/kg | 0.1 | ND |
| 蒽 (ANT) | mg/kg | 0.1 | ND |
| 荧蒽 (FLT) | mg/kg | 0.1 | ND |
| 4项多环芳香烃总和[菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)] | mg/kg | - | ND |
| 萘 (NAP) | mg/kg | 0.1 | ND |
| 15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）:多环芳香烃的要求**

| 参数<br>单位：mg/kg | 1类 | 2类 | | 3类 | |
|---|---|---|---|---|---|
| | 设计意图为放入口中的材料，或与皮肤长期接触（超过30秒）的材料用于<br>-2009/48/EC定义的玩具，或<br>-供3岁以下儿童[a,b]使用。 | 不属于第1类，设计意图或可预见[d]与皮肤长期接触（超过30秒）或短期重复接触[c]的材料 | | 不属于第1和2类，设计意图或可预见与皮肤短期接触（不超过30秒）材料 | |
| | | a.供儿童使用的产品 | b.其他产品 | a.供儿童使用的产品 | b.其他产品 |
| 苯并(a)芘 (BaP) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(e)芘 (BeP) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(a)蒽 (BaA) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(b)荧蒽 (BbF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(j)荧蒽 (BjF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并 (k)荧蒽 (BkF) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 䓛 (CHR) ,mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 二苯并(a,h)蒽 (DBA) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 苯并(g,h,i)苝(二萘嵌苯) (BPE) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 茚苯(1,2,3-c,d)芘 (IPY) | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 菲 (PHE)，芘 (PYR)，蒽 (ANT)，荧蒽 (FLT) | < 1<br>（总和） | < 5<br>（总和） | < 10<br>（总和） | < 20<br>（总和） | < 50<br>（总和） |
| 萘 (NAP) | < 1 | < 2 | | < 10 | |
| 15 PAH之和 | <1 | < 5 | < 10 | < 20 | < 50 |

注释:
[a] 儿童是指法定年龄未满 14 周岁的人。
[b] 供儿童使用包括儿童的主动接触或被动接触。
[c] "短期重复接触"的定义摘自 REACH 附录 XVII 第 50 条修正案（(EC) No. 1272/2013)。
[d] 根据德国产品安全法（ProdSG）（第一章第 2 条第 28 款）的定义，"可预见的使用"是指将产品投放市场的人无意但可以合理预见的方式使用产品。
备注：
德国产品安全委员会（AfPS）于 2020 年 4 月 10 日发布了关于多环芳香烃（PAHs）的新文件（AfPS GS 2019:01 PAK），该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

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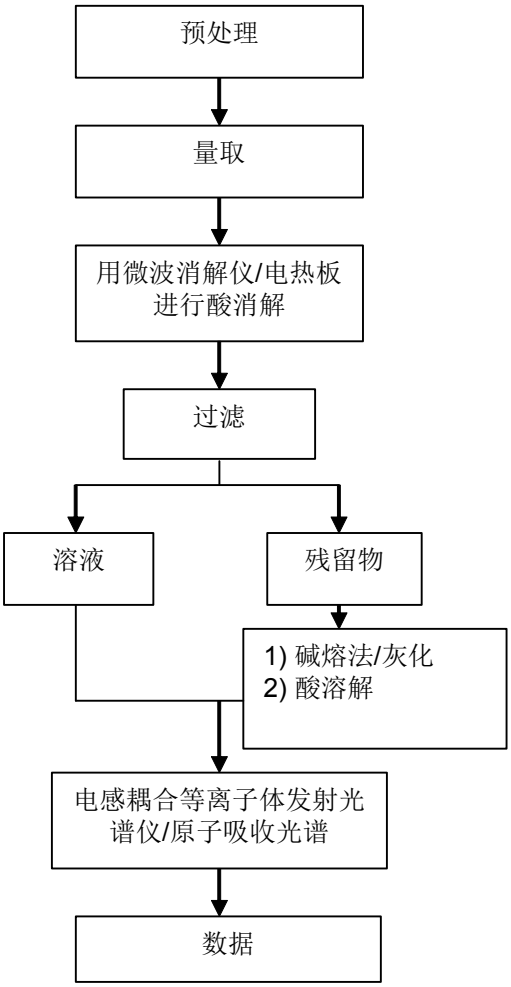
附件

## 元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解

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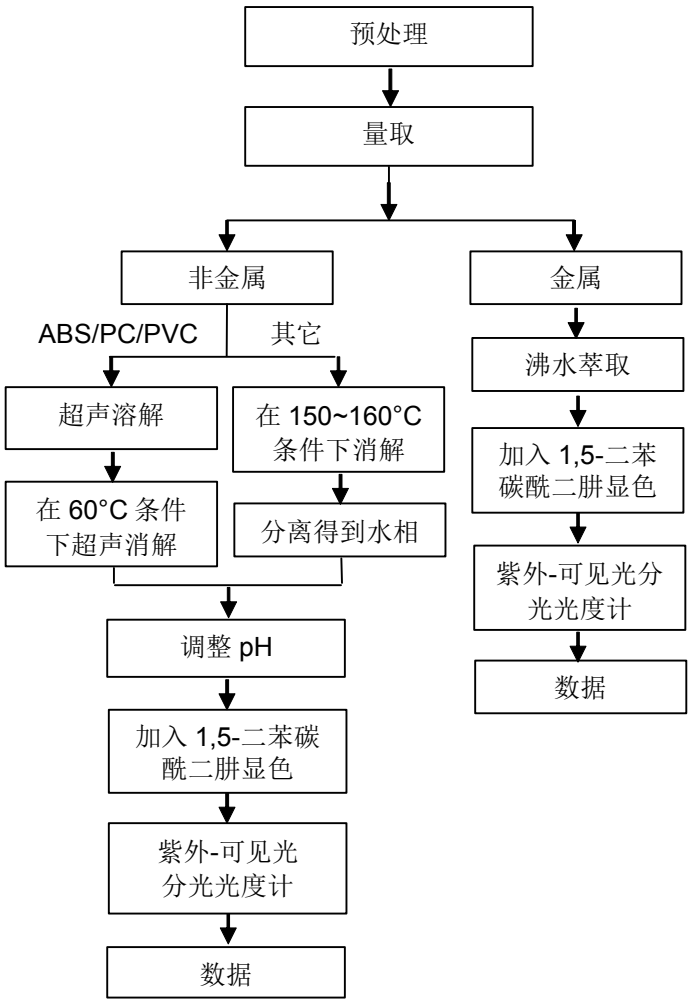
## 六价铬测试流程图

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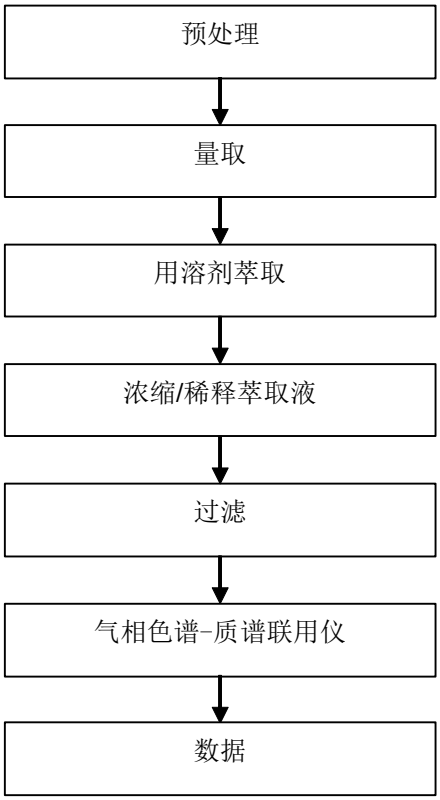
## PBBs/PBDEs 测试流程图

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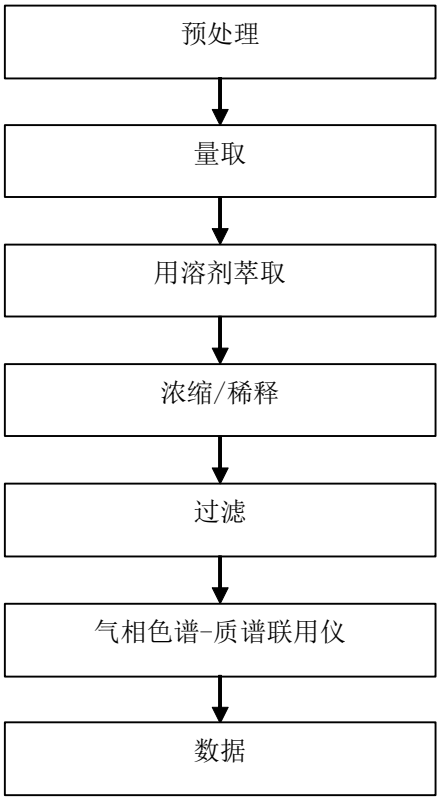
附件

## Phthalates 测试流程图

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center-Chemical Laboratory

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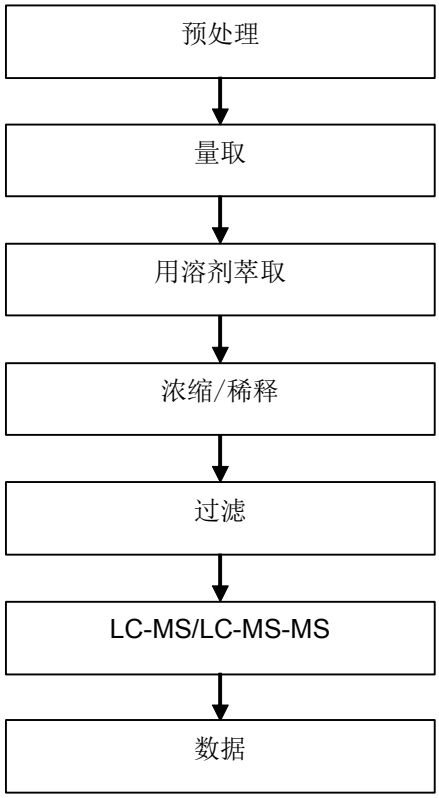
## PFASs/ PFOS/PFOA 测试流程图

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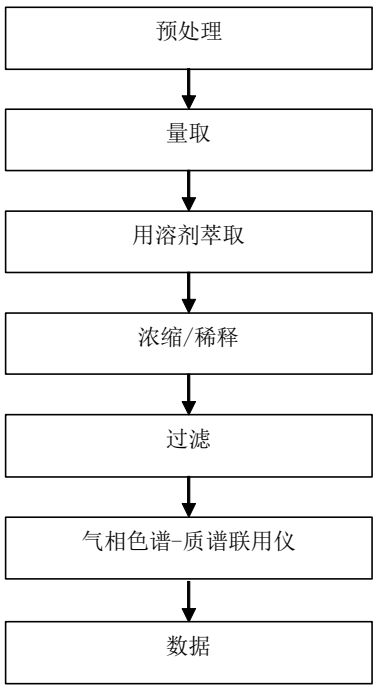
**PAHs 测试流程图**

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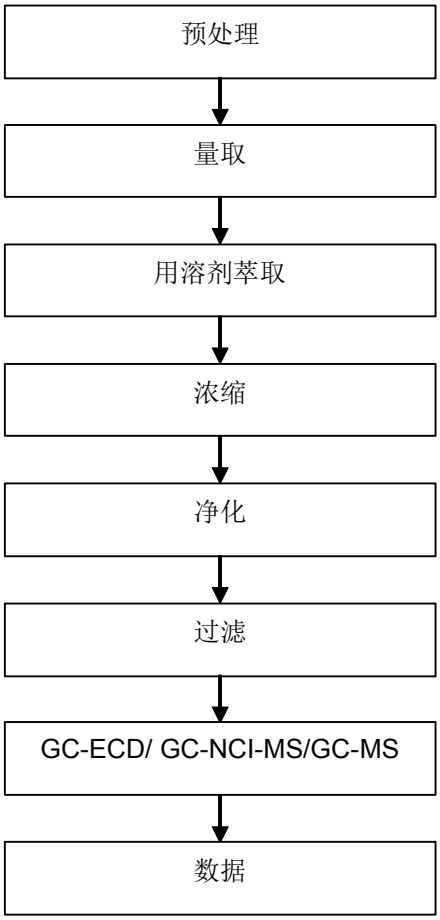
## 氯化石蜡 测试流程图

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