

## 测试报告

No. SHAMLP1910534104

日期: 2019年05月27日 第1页,共9页

台化兴业(宁波)有限公司

中国·宁波·北仑·霞浦·台塑关系企业宁波工业园区塑胶部宁波PABS厂

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SGS工作编号: SHIN1905033879PC - SH  
 产品规格: ANC180  
 样品接收日期: 2019年05月21日  
 测试周期: 2019年05月21日 - 2019年05月27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

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SHAMLP1910534104



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测试结果:

### 测试样品描述:

| 样品编号 | SGS样品ID          | 描述      |
|------|------------------|---------|
| SN1  | SHA19-105341.002 | 米白色固体颗粒 |

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 | 002 |
|----------------|------|-------|-----|-----|
| 镉(Cd)          | 100  | mg/kg | 2   | ND  |
| 铅(Pb)          | 1000 | mg/kg | 2   | 7   |
| 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 | 002 |
|-----------------------|------|-------|-----|-----|
| 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) 最大允许限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321 系列

[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863附录II限值中还包括邻苯二甲酸酯BBP, DBP, DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过0.1%。

(3) 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。

(4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

(5) DEHP、BBP 和 DBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP、BBP 和 DBP含量进行了限制。

## 多环芳香烃(PAHs)

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

| 测试项目           | 单位    | MDL | 002 |
|----------------|-------|-----|-----|
| 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  |
| 屈 (CHR)        | mg/kg | 0.1 | ND  |
| 二苯并(a,h)蒽(DBA) | mg/kg | 0.1 | ND  |



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| 测试项目  | 单位    | MDL | 002 |
|---|-------|-----|-----|
| 苯并(g,h,i)芘(二萘嵌苯) (BPE)  | mg/kg | 0.1 | ND  |
| 茚并(1,2,3-c,d)芘 (IPY)  | mg/kg | 0.1 | ND  |
| 芘烯(ANY)   | mg/kg | 0.1 | ND  |
| 芘(萘嵌戊烷) (ANA)   | mg/kg | 0.1 | ND  |
| 芴 (FLU)   | 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  |
| 7项多环芳香烃总和[芘烯(ANY),芘(萘嵌戊烷) (ANA),芴 (FLU),菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)] | mg/kg | -   | ND  |
| 萘 (NAP)   | mg/kg | 0.1 | ND  |
| 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 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料(长时间接触皮肤)或频繁接触皮肤. |              | 未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤) |              |
|  |                                       | 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(二苯嵌苯) (BPE)n mg/kg  | < 0.2                                 | < 0.2  | < 0.5        | < 0.5  | < 1          |
| 蒽苯(1,2,3-c,d)芘 (IPY) mg/kg   | < 0.2                                 | < 0.2  | < 0.5        | < 0.5  | < 1          |
| 苊烯(ANY), 苊(蒽嵌戊烷) (ANA), 苊 (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                                   | < 2  |              | < 10   |              |
| 18 PAH之和   | <1                                    | < 5  | < 10         | < 20   | < 50         |

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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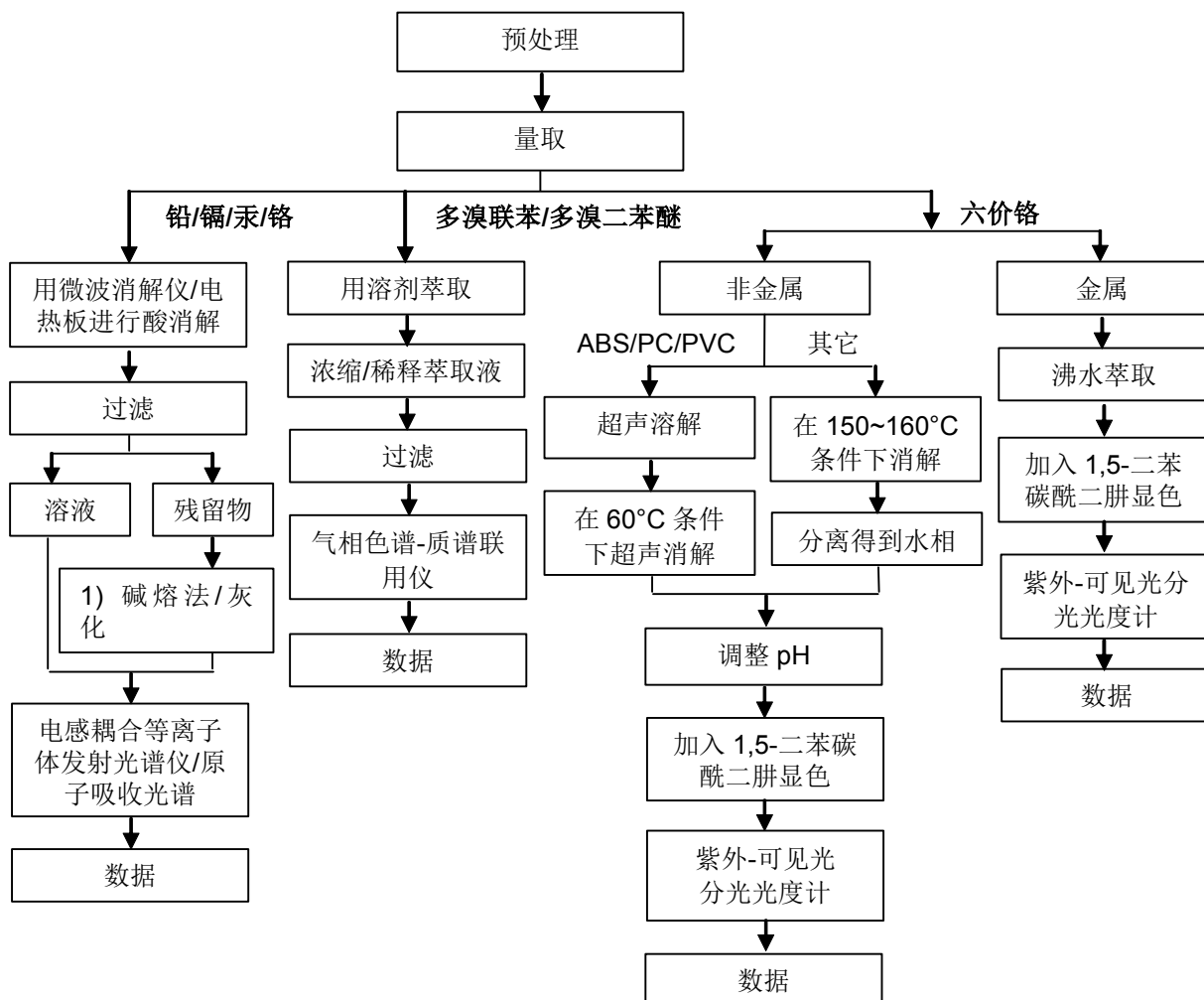
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附件

## Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 测试流程图

1)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）。

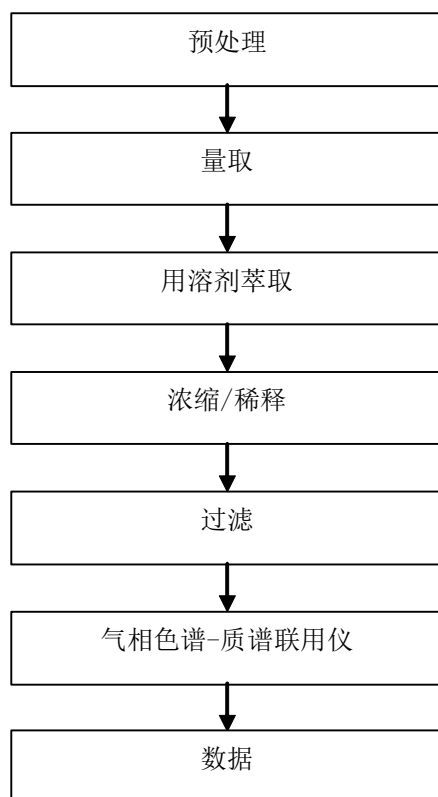


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## Phthalates 测试流程图

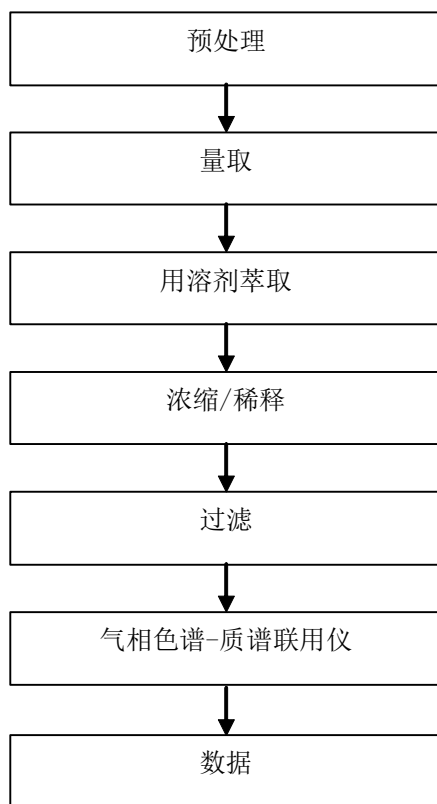


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## PAHs 测试流程图



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