

## 测试报告

No. SHAEC2128122302

日期: 2021年12月31日 第1页,共14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: G11  
客户参考信息: G11,LSC11, G11B, SB11, SG11, FG11, G11-R, G11-BU, G11W, FG(a), LSC(a), EHF(a),OMR(a)-UV, C71-A, C71-B, C71-C, ST(a), OM(a)-UV,G(a)W,G11B, IMD11, LCD11, LCD41, LCD61, LCD11B, T11, UV11, SR11, LC11, LC21, LC32, LC42, LC21B, LC11B, LC32B, LC21W, LC32W, LC42B,LC42W,G42, G42W,G51, G42F, G21F, G32, G32F, G52, G21, G41, G41F, G21B, G42B, G61, G71, IMD42, IMD41, LD21, LD21W, LD32, LD42, LD42W, LD52W, LD41W, LD21W-F, LD42W-F, T41, T32F, SR42, SR41, SR21.OM(a), BLC(a)(b), GAP(a),G11-N.

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)、邻苯二甲酸丁苯酯(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。



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授权签名

Jenny Lan 兰柳珍  
批准签署人

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## 测试报告

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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	SHA21-281223.001	无色透明片材

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	001
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	001
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。

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](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	001
短链氯化石蜡(SCCP) (C <sub>10</sub> -C <sub>13</sub> )	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	001
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-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (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	001
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
蒽 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽 (DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(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 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 -2009/48/EC定义的玩具, 或 -供3岁以下儿童 <sup>a,b</sup> 使用。	不属于第1类, 设计意图或可预见 <sup>d</sup> 与皮肤长期接触(超过30秒)或短期重复接触 <sup>c</sup> 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
蒽 (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)花(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 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
15 PAH之和	< 1	< 5	< 10	< 20	< 50

注释:

<sup>a</sup> 儿童是指法定年龄未满 14 周岁的人。

<sup>b</sup> 供儿童使用包括儿童的主动接触或被动接触。

<sup>c</sup> “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)。

<sup>d</sup> 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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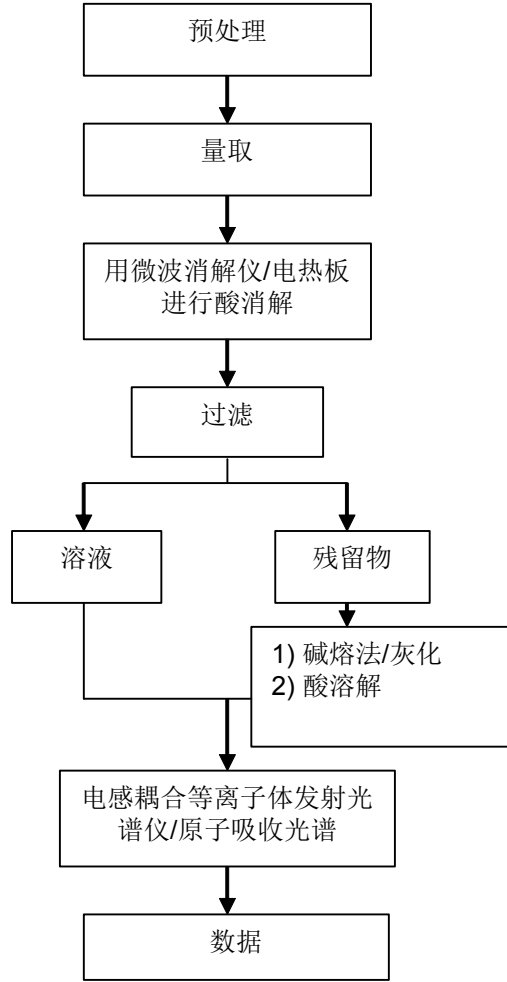


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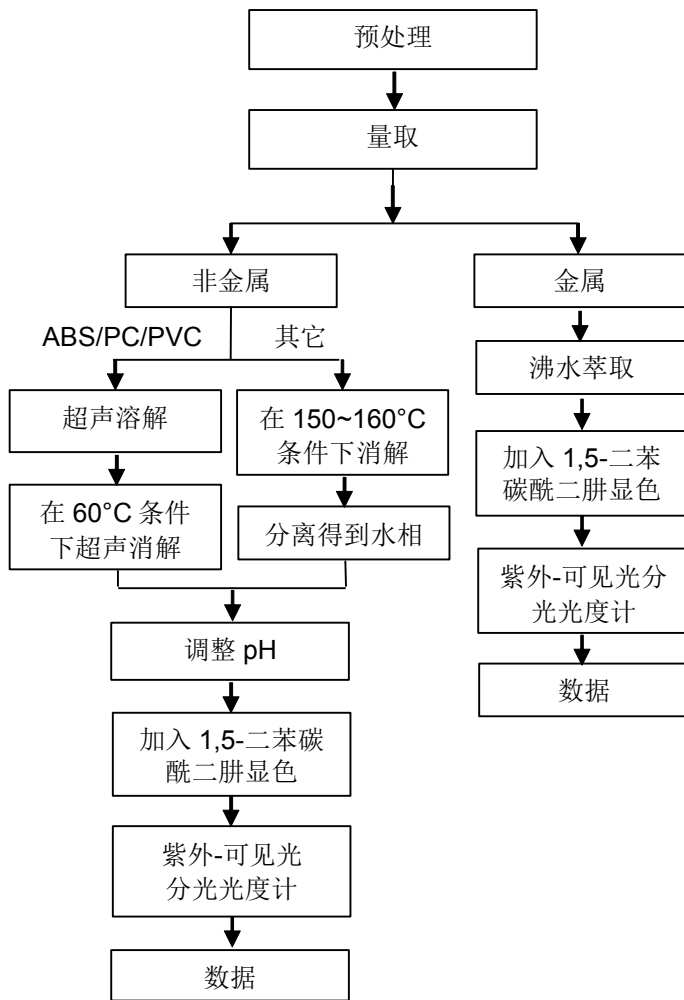
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## 元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解



## 六价铬测试流程图

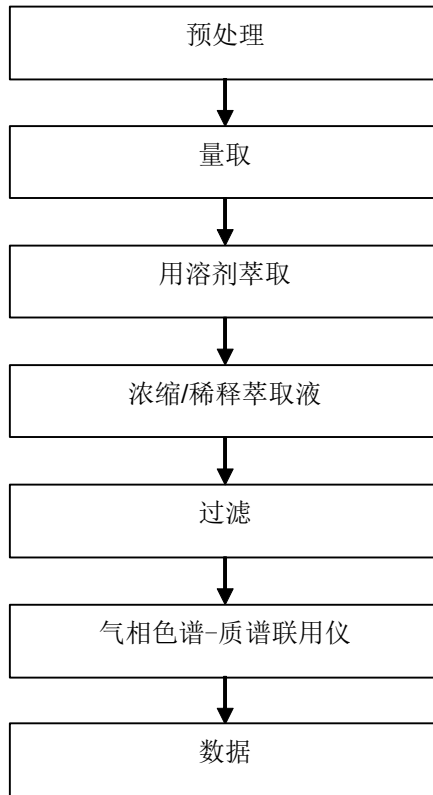


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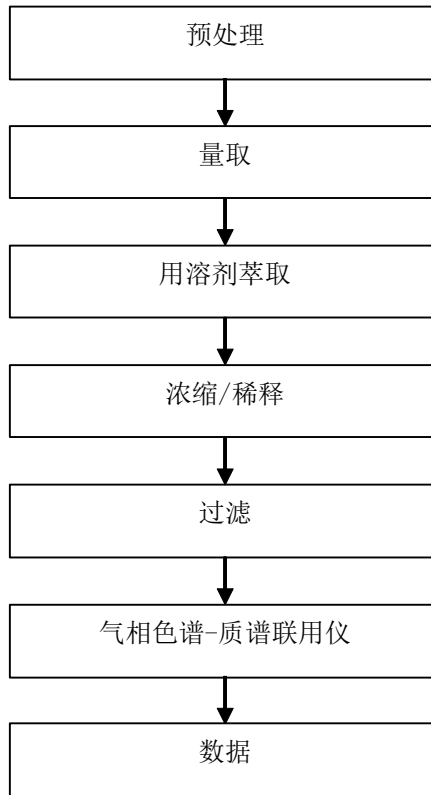
### PBBs/PBDEs 测试流程图



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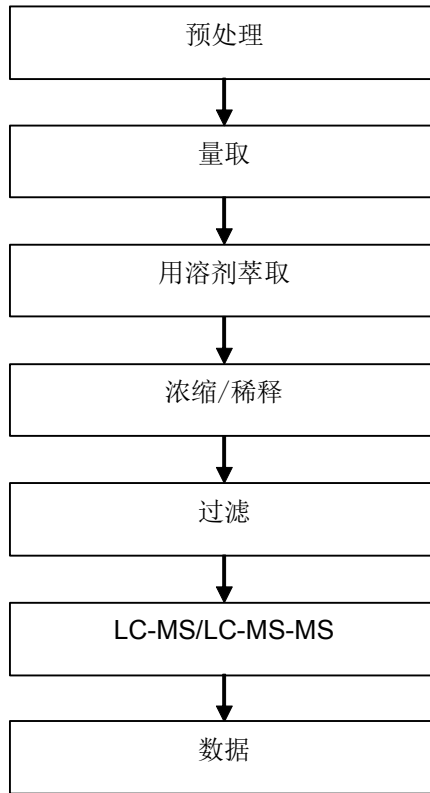
### Phthalates 测试流程图



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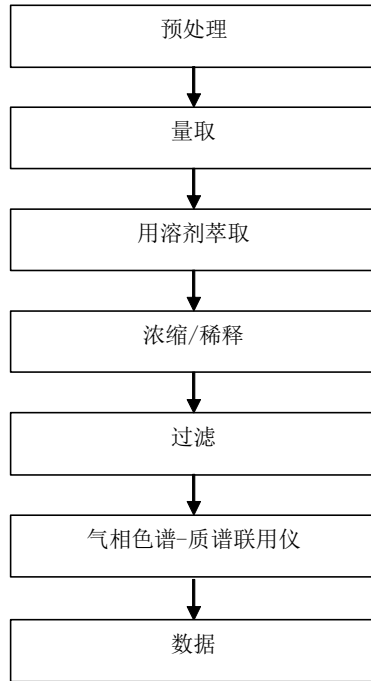
PFASs/ PFOS/PFOA 测试流程图



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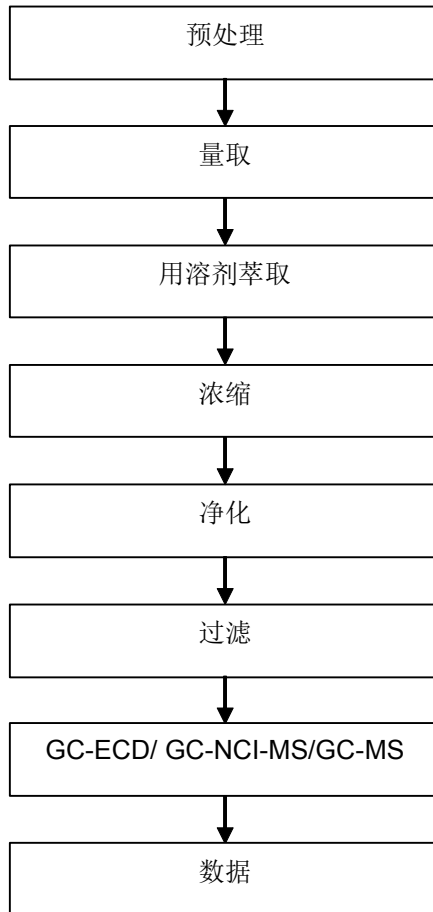
PAHs 测试流程图



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### 氯化石蜡 测试流程图



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## 测试报告

No. SHAEC2128122302

日期: 2021年12月31日 第14页,共14页

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