



**测试报告** No. SHAEC2128122310 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: SE42B

客户参考信息: SE11, SE21, SE41, SE42, SE31, SE61, SE71, SE32, SE52, SE51, SE62,

SE72,SE21B, SE41B, SE42W, SE42B-F, SE41B-F, SE32B, SE31B, SE61B,

SE71B, SE52B, SE51B, SE62B, SE72B, SE21W, SE41W, SE32W

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。

通标标准技术服务(上海)有限公司 授权签名

34933

Jenny Lan兰柳珍 批准签署人





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测试结果:

### 测试样品描述:

样品编号SGS样品ID描述SN1SHA21-281223.002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	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
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	<u>MDL</u>	<u>002</u>
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:12586

(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** 002 ND 短链氯化石蜡(SCCP) (C10-C13) mg/kg 50

## 全氟辛烷磺酸及其衍生物(PFOS)

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

测试项目 单位 CAS NO. MDL 002 全氟辛烷磺酸 (PFOS) ^ 1763-23-1 mg/kg 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	<u>单位</u>	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
葸 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)菲(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):多环芳香烧的要求

	1类	2类		3 类	
<b>参数</b> 单位: mg/kg	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	不属于第 1 类,设计意图或可预见。与皮肤长期接触(超过30 秒)或短期重复接触。的材料		或可 或可 超过 不属于第 1 和 2 类,设计意图 超过 或可器图与皮肤短期接触 / 2	
		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
蔗 (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	<1	< 5	< 10	< 20	< 50
(ANT),荧蒽 (FLT)	(总和)	(总和)	(总和)	(总和)	(总和)
萘 (NAP)	<1	< 2		< 10	
15 PAH之和	<1	< 5	< 10	< 20	< 50

- "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。
- ° "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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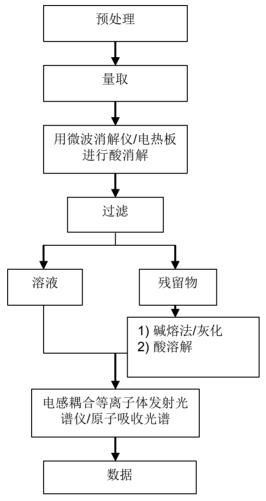
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附件

# 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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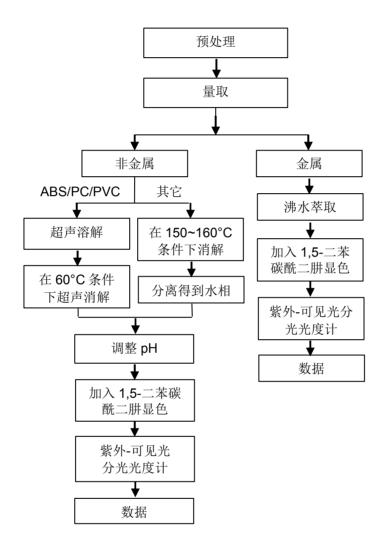


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附件

## 六价铬测试流程图





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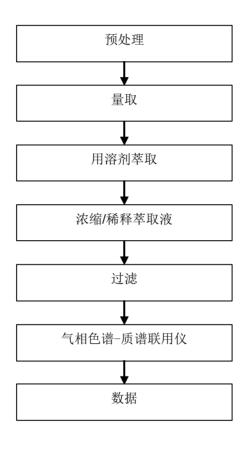


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## PBBs/PBDEs 测试流程图





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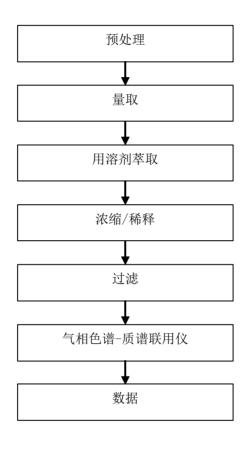


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# Phthalates 测试流程图





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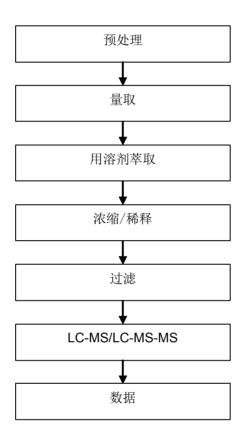


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## PFASs/ PFOS/PFOA 测试流程图





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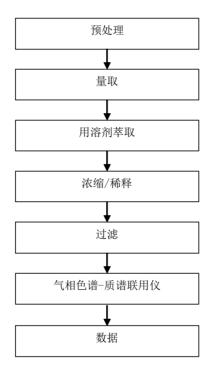


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### PAHs 测试流程图





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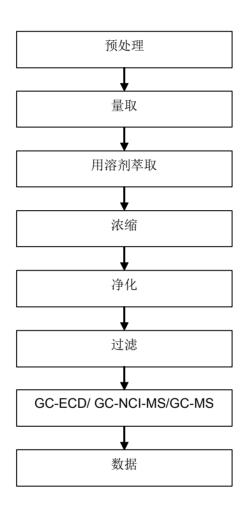


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## 氯化石蜡 测试流程图





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