



## 测试报告

No. GZ1008096923/CHEM

日期: 2010 年 9 月 3 日

第1页, 共16页

建滔积层板控股有限公司  
香港新界沙田香港科学园第二期科技大道东十二号海滨大楼一座二楼

以下测试之样品是由申请者所提供及确认: KB-3152

SGS 工作编号 : GZ12689400EC, SHAEC1012361202  
SGS 内部编号 : 8.8  
测试样品信息 : KB-3152  
客户参考信息 : KB-3152C, KB-3152S, KB-3153, KB-2150G, KB-2150GC  
样品接收日期 : 2010 年 8 月 23 日  
测试周期 : 2010 年 8 月 23 日 - 2010 年 8 月 26 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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Member of the SGS Group (SGS SA)

测试结果:

样本 1 描述: 带红色印字的棕色板

**SS-00259**

测试项目	单位	测试方法 (参考)	测试结果	MDL
镉 (Cd)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
铅 (Pb)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
汞 (Hg)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
碱性溶液萃取测六价铬 (CrVI)	mg/kg	IEC 62321: 2008, UV-Vis	N.D.	2
多溴联苯(PBBs)之和	mg/kg	-	N.D.	-
单溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
二溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
三溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
四溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
五溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
六溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
七溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
八溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
九溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
十溴联苯	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
多溴二苯醚(PBDEs)之和	mg/kg	-	N.D.	-
单溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
二溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
三溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
四溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
五溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
六溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
七溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
八溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
九溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
十溴二苯醚	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. "-" = 未规定
5. 多溴二苯醚 = 多溴联苯醚

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### Phthalate(s) (邻苯二甲酸酯)

测试项目	单位	测试方法 (参考)	测试结果	MDL
邻苯二甲酸二甲酯(DMP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二乙酯(DEP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二丁酯(DBP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸丁苄酯(BBP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二异壬酯(DINP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01
邻苯二甲酸二正辛酯(DNOP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二异癸酯(DIDP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01
邻苯二甲酸二异丁酯(DIBP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二正壬酯(DNP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二异辛酯(DIOP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01
邻苯二甲酸二正丙酯(DPrP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二环己酯(DCHP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二正戊酯(DPP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二苄酯(DBzP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二苯酯 (DPhP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二己酯 (DnHP)	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003

#### 注释:

1. mg/kg = ppm; 0.1%=1000ppm
2. MDL = 方法检测限
3. N.D.= 未检出 (< MDL)

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**PAHs (多环芳烃)**

测试项目	单位	测试方法	测试结果	MDL
萘 (NAP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
芴烯 (ANY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
芴 (ANA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
芘 (FLU)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
菲 (PHE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
蒽 (ANT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
荧蒽 (FLT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
芘 (PYR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
苯并 (a) 蒽 (BaA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
屈 (CHR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
苯并 (b) 荧蒽 (BbF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
苯并 (k) 荧蒽 (BkF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
苯并 (a) 芘 (BaP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
茚并 (1,2,3-c,d) 芘 (IPY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
二苯并 (a,h) 蒽 (DBA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
苯并 (g,h,i) 芘 (BPE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
16 项 PAHs 总量 (根据 US EPA)	mg/kg	-	N.D.	-

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

**ZEK 01.2-08: 产品中 PAHs 含量的最大浓度限值**

参数	1 类	2 类	3 类
	设计意图为放入口中的材料, 以及 36 个月以下幼儿的玩具上与皮肤接触的材料	未在 1 类规定中涵盖的材料, 且可能与皮肤长期接触的材料 (接触时间大于 30 秒)。	未在 1 和 2 类规定中涵盖的材料, 且可能与皮肤短期接触的材料 (接触时间小于等于 30 秒)
苯并(a)芘含量 (mg/kg)	<MDL (<0.2)***	1	20
16 项 PAHs (US EPA) 总量 (mg/kg)**	<MDL (<0.2)***	10	200

备注: \*\* = 仅物质浓度大于 0.2ppm 时才用于计算 16 项多环芳烃总量。

\*\*\* = 若设计意图为放入口中的材料的测试结果大于 1 类限值但不超过 2 类限值, 需再依据 DIN EN 1186ff 及 §64 LFGB 80.30-1 进行 PAH 的迁移性测试并根据相关食品法规进行判定。

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**全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)**

测试项目	单位	测试方法 (参考)	测试结果	MDL
全氟辛酸 (PFOA)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
全氟辛烷磺酸 (PFOS)				
PFOS - 酸				
PFOS - 金属盐	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
PFOS - 胺				

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

参考: 1907/2006/EC 的修正指令——552/2009/EC 第 53 条(前身为 2006/122/EC)的要求:

- (1) PFOS 比重等于或高于 0.005% 的物料或者配置品, 不得使用或者投放市场。
- (2) PFOS 比重等于或高于 0.1% 的半成品, 成品或者部件; 以及 PFOS 含量等于或高于 1µg/m<sup>2</sup> 的纺织物或其他带涂层物料, 不得投放市场。

**卤素**

测试项目	单位	测试方法 (参考)	测试结果	MDL
氯 (Cl)	mg/kg	BS EN 14582:2007, IC	219	50
溴 (Br)	mg/kg	BS EN 14582:2007, IC	N.D.	50

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

**有机锡**

测试项目	单位	测试方法 (参考)	测试结果	MDL
DBT (二丁基锡)	mg/kg	ISO 17353:2004, GC-MS	N.D.	0.5
TBT (三丁基锡)	mg/kg	ISO 17353:2004, GC-MS	N.D.	0.5
TPhT (三苯基锡)	mg/kg	ISO 17353:2004, GC-MS	N.D.	0.5
DOT (二辛基锡)	mg/kg	ISO 17353:2004, GC-MS	N.D.	0.5

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

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### 甲醛

测试项目	单位	测试方法 (参考)	测试结果	MDL
游离和水解甲醛	mg/kg	ISO 14184-1:1998, UV-Vis	N.D.	20

#### 注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

### 富马酸二甲酯

测试项目	单位	测试方法 (参考)	测试结果	MDL	限值
富马酸二甲酯	mg/kg	SGS 内部方法(GZTC CHEM-TOP-095), GC-MS	N.D.	0.1	0.1

#### 评论

**合格**

#### 注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

#### 参考 (2009/251/EC 指令要求):

成品或半成品中的部件被检出的 DMF 含量的最大限值为 0.1mg/kg。

### 二氯化钴

测试项目	单位	测试方法 (参考)	测试结果	MDL
二氯化钴 (CoCl <sub>2</sub> )	mg/kg	SGS 内部方法(GZRD-R&D-TOP-104)& EPA 3052:1996, IC & ICP-OES	N.D.	100

#### 注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. 二氯化钴: 由钴和氯含量换算得之。

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备注 :

- (1) 1 mg/kg = 1 ppm = 0.0001%.
- (2) MDL = 检测极限值.
- (3) ND = 未检出 (< MDL).
- (4) "-" = 未规定.

**臭氧破坏物质(ODS).**

测试方法 : 参照 US EPA 5021A-2003 方法测定, 采用 GC-MS 进行分析.

测试项目.	CAS_NO	单位.	MDL.	001.
<b>CFC.</b>				
CFC-11.	75-69-4.	μ g/g.	0.1	ND
CFC-12.	75-71-8.	μ g/g.	0.1	ND
CFC-113.	76-13-1.	μ g/g.	0.1	ND
CFC-114.	76-14-2.	μ g/g.	0.1	ND
CFC-13.	75-72-9.	μ g/g.	0.1	ND
CFC-111.	354-56-3.	μ g/g.	0.1	ND
CFC-112.	76-11-9.	μ g/g.	0.1	ND
CFC-112.	76-12-0.	μ g/g.	0.1	ND
CFC-113.	354-58-5.	μ g/g.	0.1	ND
CFC-114.	374-07-2.	μ g/g.	0.1	ND
CFC-115.	76-15-3.	μ g/g.	0.1	ND
CFC-212.	661-96-1.	μ g/g.	0.1	ND
CFC-211.	422-78-6.	μ g/g.	0.1	ND
CFC-213.	1652-89-7.	μ g/g.	0.1	ND
CFC-214.	677-68-9.	μ g/g.	0.1	ND
CFC-215.	1599-41-3.	μ g/g.	0.1	ND
CFC-215.	76-17-5.	μ g/g.	0.1	ND
CFC-216.	661-97-2.	μ g/g.	0.1	ND
CFC-216.	1652-80-8.	μ g/g.	0.1	ND
CFC-217.	422-86-6.	μ g/g.	0.1	ND
<b>Halon.</b>				

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<u>测试项目.</u>	<u>CAS_NO</u>	<u>单位.</u>	<u>MDL.</u>	<u>001.</u>
Halon 1211.	353-59-3.	$\mu$ g/g.	0.1	ND
Halon 1301.	75-63-8.	$\mu$ g/g.	0.1	ND
Halon 2402.	124-73-2.	$\mu$ g/g.	0.1	ND

备注 :

(1) 微克每克=百万分之一( $\mu$  g/g=ppm).

备注 1: 报告显示 ODS 的测试结果是在 SGS 上海公司进行

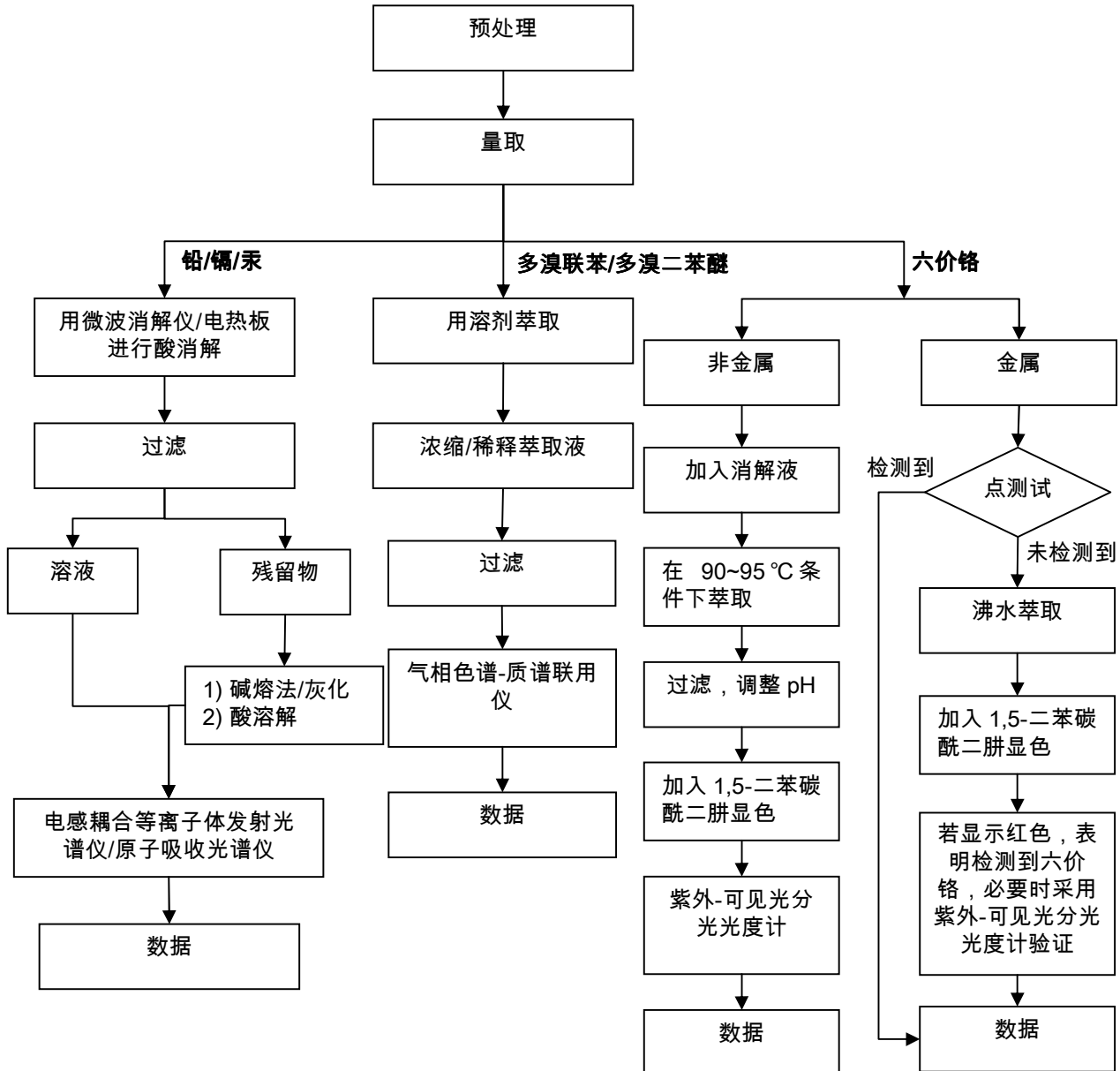
备注 2: 本测试报告内容是参照报告编号为 GZ1008096922/CHEM 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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附件

## RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 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)。

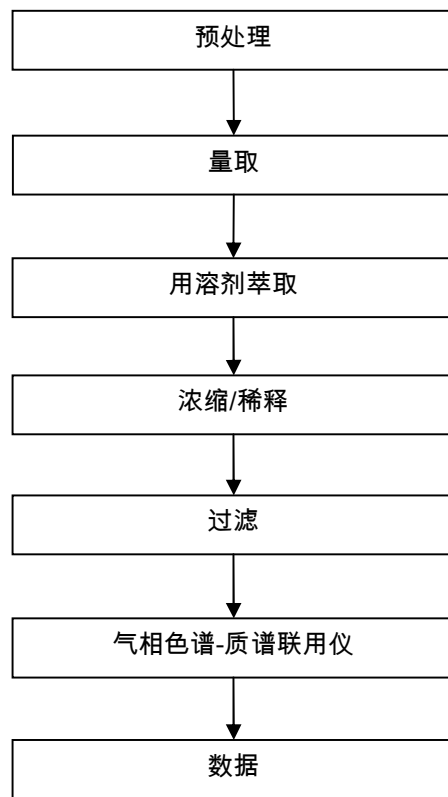


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附件

### Phthalates 测试流程图

- 1) 分析人员: 赵瑞娜
- 2) 项目负责人: 杨伟兴

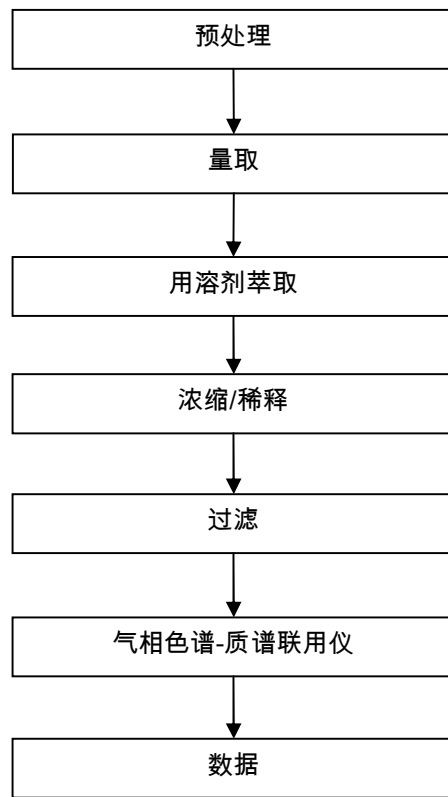


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附件

### PAHs 测试流程图

- 1) 分析人员: 余晓璐
- 2) 项目负责人: 杨伟兴



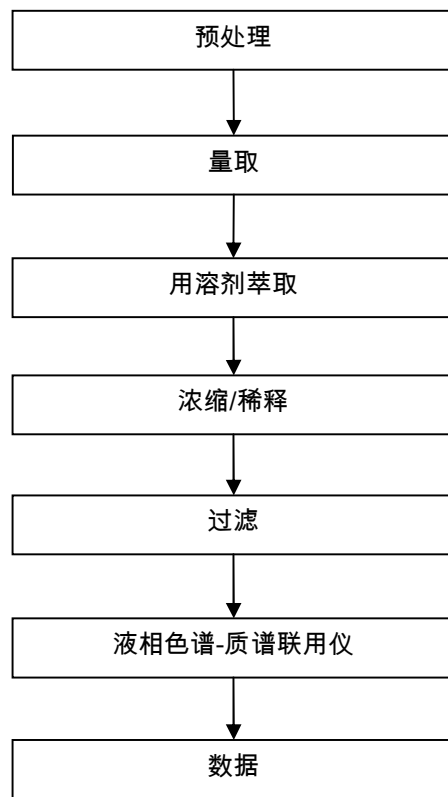
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### PFOA / PFOS 测试流程图

- 1) 分析人员: 黄少婵
- 2) 项目负责人: 杨伟兴

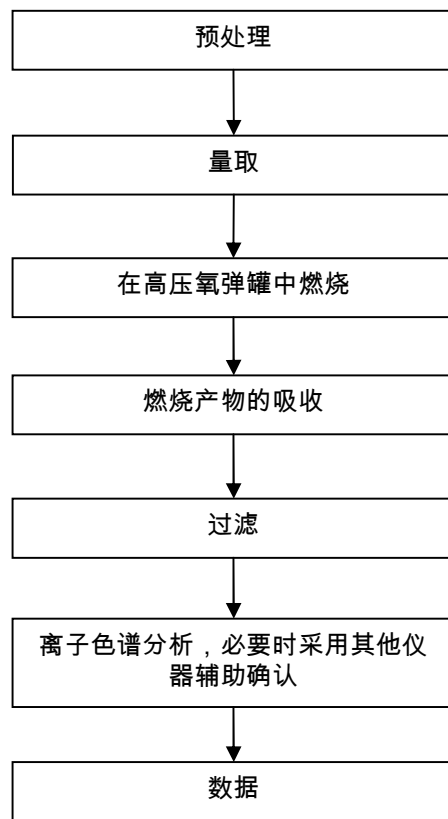


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## Halogen 测试流程图

- 1) 分析人员: 王亮
- 2) 项目负责人: 宋熾青



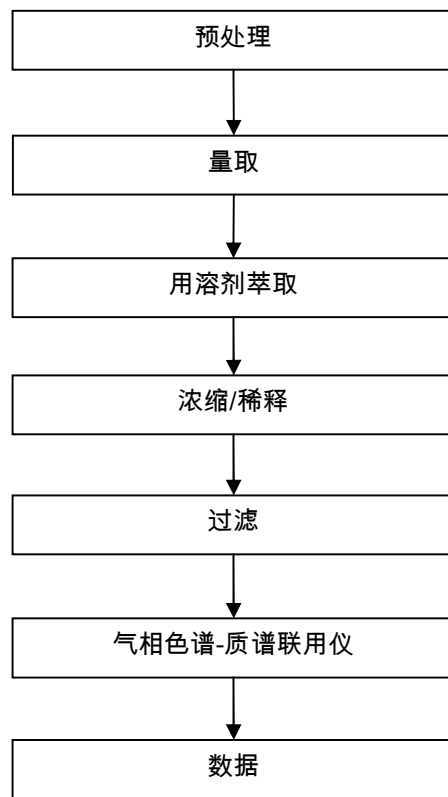
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Dimethyl Fumarate 测试流程图

- 1) 分析人员：赵瑞娜
- 2) 项目负责人：杨伟兴



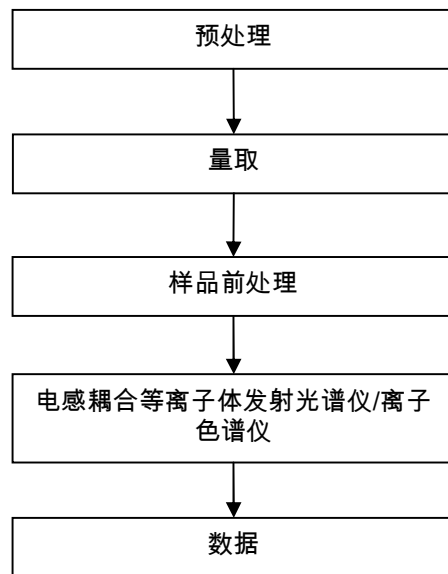
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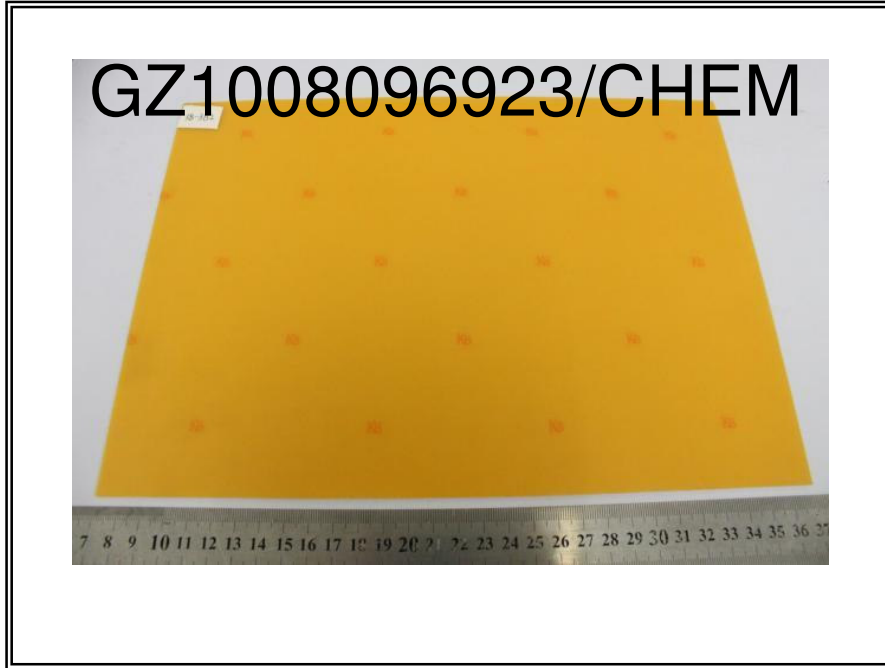
### CoCl<sub>2</sub> 测试流程图

- 1) 分析人员: 汪丹 / 王亮
- 2) 项目负责人: 余奕东 / 宋熾青



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