

测试报告

No.: GZ1003030091/CHEM

日期: 2010 年 4 月 8 日

第1页, 共12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: HF-140

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客户参考信息 : PP-HF140
样品接收日期 : 2010 年 3 月 29 日
测试周期 : 2010 年 3 月 29 日 - 2010 年 4 月 6 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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第2页, 共12页

测试结果:

样本 1 描述: 黄色片状物

元素分析

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	5	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

注释:

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

阻燃剂

测试项目	单位	测试方法 (参考)	测试结果	MDL
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

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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

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
邻苯二甲酸二丁酯(DBP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸丁苄酯(BBP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二(2-乙基己基)酯 (DEHP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二异壬酯(DINP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01
邻苯二甲酸二正辛酯(DNOP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.003
邻苯二甲酸二异癸酯(DIDP)含量	%(w/w)	EN14372: 2004, GC-MS	N.D.	0.01

注释:

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

参考: 1907/2006/EC 的修正指令——552/2009/EC 第 51/52 条(前身为 2005/84/EC)的要求:

对于 DBP, BBP, DEHP

- (1)不允许 DBP, BBP, DEHP 质量浓度高于 0.1%的可塑性物料用于玩具和儿童护理品。
- (2)当玩具和儿童护理品中的可塑性物料含 DBP, BBP, DEHP 质量浓度高于 0.1%时, 不得投放市场。

对于 DINP, DNOP, DIDP

- (1)不允许 DINP, DNOP, DIDP 质量浓度高于 0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品。
- (2)当可放入儿童口中的玩具和儿童护理品中的可塑性物料含 DINP, DNOP, DIDP 质量浓度高于 0.1%时, 不得投放市场。

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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-cd) 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/m² 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	284	50
溴 (Br)	mg/kg	BS EN 14582:2007, IC	263	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

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日期: 2010 年 4 月 8 日

第6页, 共12页

注释:

1. mg/kg = ppm
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3. MDL = 方法检测限

苯并三唑

测试项目	单位	测试方法 (参考)	测试结果	MDL
UV-320: 2-(2-羟基-3,5-二叔丁基苯基)-(2H)苯并三唑	mg/kg	EPA 3550C : 2007, GC-MS	N.D.	5
UV-350: 2-(2-羟基-3-异丁基-5-叔丁基苯基)苯并三唑	mg/kg	EPA 3550C : 2007, GC-MS	N.D.	5
UV-328: <u>2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑</u>	mg/kg	EPA 3550C : 2007, GC-MS	N.D.	5
UV-327: <u>2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑;</u>	mg/kg	EPA 3550C : 2007, GC-MS	N.D.	5

注释:

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3. MDL = 方法检测限

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	20	20

注释:

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

PCBs (多氯联苯)

测试项目	单位	测试方法	测试结果	MDL
PCB 28 (2,4,4'-三氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5
PCB 52 (2,2',5,5'-四氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5
PCB 101 (2,2',4,5,5'-五氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5
PCB 118 (2,3',4,4',5-五氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5
PCB 138 (2,2',3,4,4',5'-六氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5

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第7页, 共12页

PCB 153 (2,2',4,4',5,5'-六氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/MS	N.D.	0.5
PCB 180 (2,2',3,4,4',5,5'-七氯联苯)	mg/kg	EPA 8082A: 2007, GC-ECD/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

PCNs (多氯化萘)

测试项目	单位	测试方法	测试结果	MDL
1-氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
2-氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,2-二氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,4-二氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,5-二氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,8-二氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,2,3-三氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,2,3,4-四氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
1,2,3,4,6-五氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5
八氯萘	mg/kg	EPA 8081B: 2007, GC-MS	N.D.	5

注释:

1. mg/kg = ppm
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PVC (聚氯乙烯)

测试项目	单位	测试方法 (参考)	测试结果	MDL
聚氯乙烯含量	-	SGS 内部方法(GZTC CHEM-TOP-066), FTIR	Negative	-

注释:

1. Negative = 不存在
2. Positive = 存在
3. MDL = 方法检测限
4. "-" = 未规定

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偶氮

测试项目	单位	测试方法 (参考)	测试结果	MDL
4-氨基联苯 (4-Aminobiphenyl/Xenylamine/biphenyl-4-ylamine) (CAS NO:92-67-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
联苯胺 (Benzidine) (CAS NO: 92-87-5)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4-氯邻甲苯胺 (4-Chloro-o-toluidine) (CAS NO: 95-69-2)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2-萘胺 (2-Naphthylamine) (CAS NO:91-59-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
邻氨基偶氮甲苯 (o-Aminoazotoluene/4-o-tolylazo-o-toluidine/4-amino-2',3'-dimethylazobenzene) (CAS NO: 97-56-3)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
5-硝基-邻甲苯胺(2-Amino-4-nitrotoluene/5-nitro-o-toluidine) (CAS NO: 99-55-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
对氯苯胺 (p-Chloroaniline/4-chloroaniline) (CAS NO:106-47-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2,4-二氨基苯甲醚 (2,4-diaminoanisole/4-methoxy-m-phenylenediamine) (CAS NO: 615-05-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-二氨基二苯甲烷 (4,4'-Diaminodiphenylmethane/4,4'-methylenedianiline) (CAS NO: 101-77-9)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-二氯联苯胺 (3,3'-Dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine) (CAS NO: 91-94-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-二甲氧基联苯胺 (3,3'-Dimethoxybenzidine/o-dianisidine) (CAS NO: 119-90-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-二甲基联苯胺 (3,3'-Dimethylbenzidine/4,4'-bi-o-Toluidine) (CAS NO: 119-93-7)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
3,3'-二甲基-4,4'-二氨基二苯甲烷 (3,3'-Dimethyl-4,4'-diaminodiphenylmethane/4,4'-methylenedi-o-toluidine) (CAS NO: 838-88-0)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
2-甲氧基-6 甲基苯胺 (p-cresidine/6-methoxy-m-toluidine) (CAS NO:120-71-8)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-亚甲基-二-(2-氯苯胺) (4,4'-Methylene-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'-methylene-dianiline)(CAS NO: 101-14-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-二氨基二苯醚 (4,4'-Oxydianiline) (CAS NO: 101-80-4)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
4,4'-二氨基二苯硫醚(4,4'-Thiodianiline) (CAS NO: 139-65-1)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
邻甲苯胺 (o-Toluidine/2-aminotoluene)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5

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测试报告

No.: GZ1003030091/CHEM

日期: 2010 年 4 月 8 日

第9页, 共12页

(CAS NO: 95-53-4) 2,4-二氨基甲苯 (2,4-Toluylenediamine/4-methyl-m-phenylenediamine)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
(CAS NO: 95-80-7) 2,4,5-三甲基苯胺 (2,4,5-trimethylaniline)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
(CAS NO: 137-17-7) 4-氨基偶氮苯 (4-aminoazobenzene) ^Δ	mg/kg	EN 14362-1:2003 & LFGB § 64 BVL B 82.02.9 - 2008, GC-MS & HPLC	N.D.	5
(CAS NO: 60-09-3) 邻氨基苯甲醚 (o-anisidine/2-methoxyaniline)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
(CAS NO: 90-04-0) 2,4-二甲苯胺 (2,4-Xylidine)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
(CAS NO: 95-68-1) 2,6-二甲苯胺 (2,6-Xylidine)	mg/kg	EN 14362-1:2003, GC-MS & HPLC	N.D.	5
(CAS NO: 87-62-7)				

注释:

1. mg/kg = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. ^Δ: EN 14362 - 1/2 ISO/TS 17234 方法会促使 4-氨基偶氮苯 (4-aminoazobenzene) 进一步分裂为非禁用的氨: 苯胺 (aniline) 和 1,4-二胺基苯 (1,4-phenylenediamine)。所以 LFGB § 64 BVL B 82.02.9 - 2008 方法会用于验证 4-氨基偶氮苯 (4-aminoazobenzene) 的存在。
EN 14362-1 是与德国日用品法令 LFGB § 64 BVL B 82.02.2 - 1998 相对应的。

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
4. 本测试报告内容是参照报告编号为 GZ1003030090/CHEM 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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 0.1 毫克/千克。

备注: 测试项目是由客户/供应商特定选择的。

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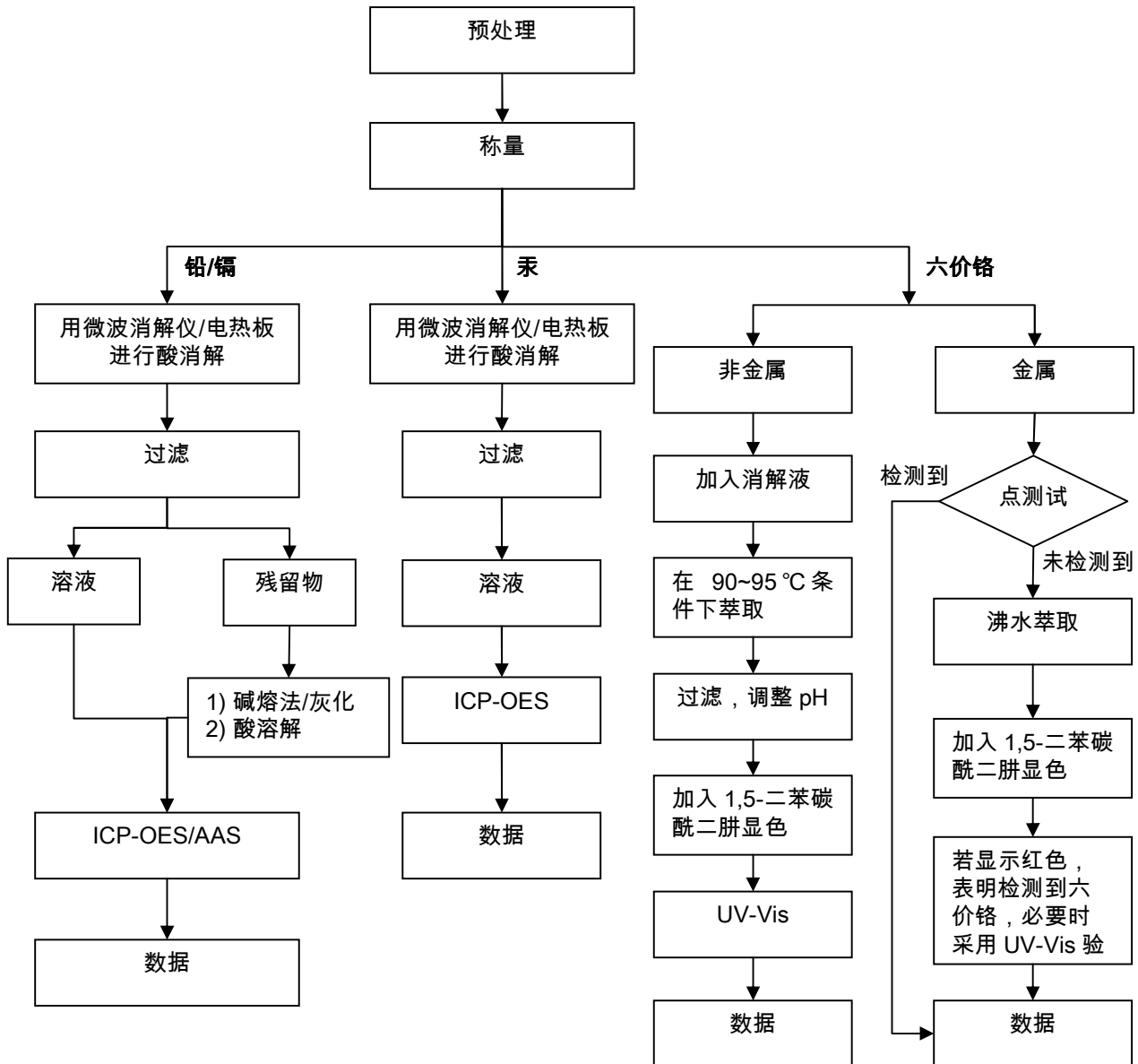
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)

附件

- 1) 分析人员: 汪丹
- 2) 项目负责人: 余奕东
- 3) 样品按照下述流程被完全消解 (六价铬除外)。

测试流程图



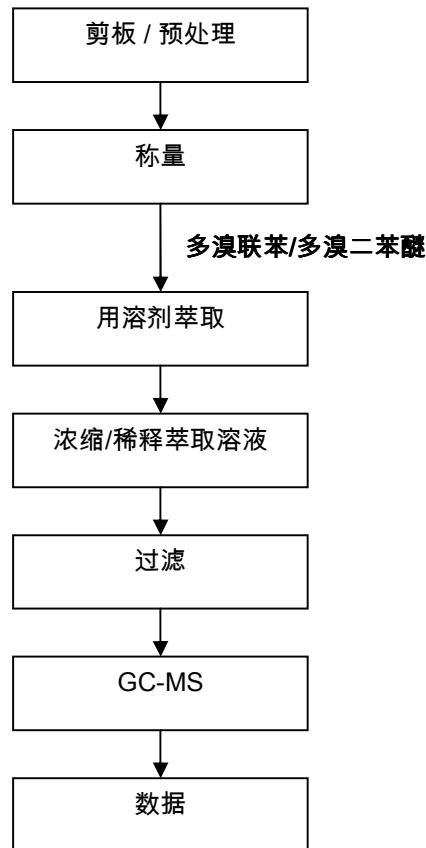
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测试流程图

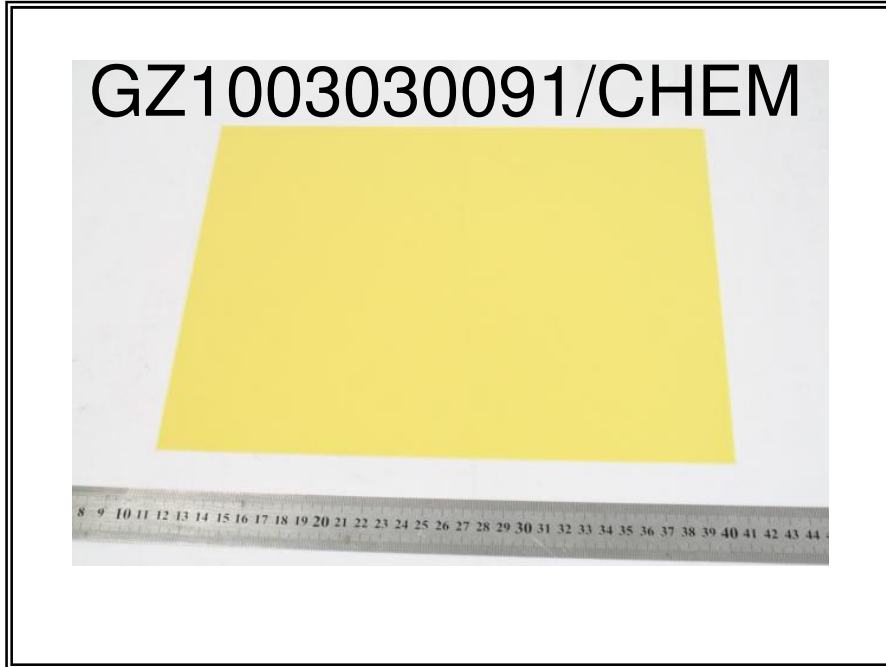
- 1) 分析人员: 赵瑞娜
- 2) 项目负责人: 杨伟兴



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*** 报告完 ***

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