

测试报告

No. SHAEC1728395606

日期: 2018年01月03日 第1页,共20页

东爵有机硅(南京)有限公司

中国江苏省南京市浦口区桥林街道福音东街196号

以下测试之样品是由申请者所提供及确认: 电绝缘胶

SGS工作编号: SP17-043227 - SH
型号: NE-T-2
客户参考信息: NE-T-1、NE-T-1U、NE-T-2U、NE-C-1、NE-C-1U、NE-C-2、NE-C-2U、NE-D-1、NE-D-1U、NE-D-2、NE-D-2U、NE-E-1、NE-E-1U、NE-E-2、NE-E-2U
样品接收日期: 2017年12月26日
测试周期: 2017年12月26日 - 2018年01月02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。

委托样品的富马酸二甲酯(DMF)含量符合欧盟决议(EU) No 412/2012及1907/2006/EC Reach 附录XVII第61条修正法案

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授权签名

Marry Ma 马广媛
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
SN1	SHA17-283956.003	白色软固体

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	003
铅(Pb)	1000	mg/kg	2	ND
镉(Cd)	100	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	003
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

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。

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析。

测试项目	单位	MDL	003
锑(Sb)	mg/kg	10	ND
砷(As)	mg/kg	10	ND
硒(Se)	mg/kg	10	ND
钡(Ba)	mg/kg	10	ND

卤素



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测试方法: 参照EN 14582: 2016方法测定, 采用IC进行分析.

测试项目	单位	MDL	003
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

硫(S)

测试方法: 参照EN 14582:2007. 用IC方法检测.

测试项目	单位	MDL	003
硫 (S)	mg/kg	50	ND

有机锡化合物

测试方法: 参照ISO 17353: 2004 方法测定, 使用二乙基二硫代氨基甲基钠, 采用 GC-MS 进行分析.

测试项目	单位	MDL	003
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡 (TBT)	mg/kg	0.02	ND
二辛基锡 (DOT)	mg/kg	0.02	ND
三苯基锡 (TPhT)	mg/kg	0.02	ND

壬基酚聚氧乙烯醚(OPEOs), 壬基酚聚氧乙烯醚(NPEOs), 壬基酚 (NP) 和辛基酚(OP)

测试方法: 溶剂萃取, 采用HPLC-MS进行分析.

测试项目	单位	MDL	003
壬基酚(NP)	mg/kg	10	ND
辛基酚(OP)	mg/kg	10	ND
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	30	ND
辛基酚聚氧乙烯醚(OPEOs)	mg/kg	30	ND



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备注:

- (1) NP和NPEOs参考信息:1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第46条(前身为2003/53/EC): 当用于下属用途时,不允许NP、NPEOs质量浓度等于或高于0.1%的物料或者配置品投放市场:工业和公共机构清洁,家用清洗,纺织品和皮革加工,农用动物乳房清洗/浸润剂的乳化剂,金属加工,纸浆和纸张的制造,化妆品,其他个人护理用品和杀虫剂和生物农药中的复合赋形剂
 详细信息请参见Regulation (EC) No 552/2009
- (2) 需要时采用GC-MS进行确认

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	003
四溴双酚-A	mg/kg	10	ND

双酚-A

测试方法: 以有机溶剂进行萃取, 采用HPLC-DAD-MS进行分析.

测试项目	单位	MDL	003
双酚A	mg/kg	1	ND

欧盟决议(EU) No 412/2012 及 1907/2006/EC Reach附录XVII第61条-富马酸二甲酯(DMF)

测试方法: 溶剂萃取, 采用GC-MS进行分析.

测试项目	限值	单位	MDL	003
富马酸二甲酯(DMF)	0.1	mg/kg	0.1	ND

全氟辛烷磺酸 (PFOS)和全氟辛酸(PFOA)

测试方法: 参照US EPA 3550C: 2007. 采用HPLC-MS测试.

测试项目	限值	单位	MDL	003
全氟辛烷磺酸(PFOS)及衍生物^	1000	mg/kg	10	ND
全氟辛酸 (PFOA)	-	mg/kg	10	ND

备注:



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- (1) 最大允许限制引用自(EC) No. 850/2004 的修订指令欧盟决议(EU) No. 757/2010.
 (2) ^= PFOS 包含全氟辛烷磺酸(PFOS), 全氟辛基磺酰胺(PFOSA), 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE), N-甲基全氟辛烷磺酰胺(MeFOSA), N-乙基全氟辛烷磺酰胺(EtFOSE)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

邻苯二甲酸盐(或酯)

测试方法: 参照EN 14372: 2004 的方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	003
邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/ 68515-49-1	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%	0.003	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二戊酯(DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%	0.003	ND
邻苯二甲酸二苄酯(DBzP)	523-31-9	%	0.003	ND
邻苯二甲酸二异辛酯 (DiOP)	27554-26-3	%	0.01	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%	0.003	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二癸酯(DnDP)	84-77-5	%	0.003	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	%	0.003	ND
邻苯二甲酸二庚酯(DHPP)	3648-21-3	%	0.003	ND
邻苯二甲酸二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二(2-乙氧基)乙酯 (DEEP)	605-54-9	%	0.003	ND
邻苯二甲酸二(4-甲基-2-戊基)酯 (BMPP)	146-50-9	%	0.003	ND
己二酸二辛酯(DEHA)	103-23-1	%	0.003	ND
1,2-苯二酸二(支链与直链)戊基酯	84777-06-0	%	0.01	ND
邻苯二甲酸二(2-丁氧基)乙酯 (DBEP)	117-83-9	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二C6-C8支链烷基酯(DIHP)	71888-89-6	%	0.01	ND



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备注:

(1) DBP, BBP, DEHP 参考信息: 1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第51条 (前身为2005/84/EC) 的要求:

- i) 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
- ii) 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
详细信息请参见Regulation (EC) No 552/2009

DINP, DNOP, DIDP 参考信息: 1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC 第52条 (前身为2005/84/EC) 的要求:

- i) 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
- ii) 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。
详细信息请参见Regulation (EC) No 552/2009

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	003
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
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
蒽烯(ANY)	mg/kg	0.1	ND
蒽(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[蒽烯(ANY), 蒽(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.	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
茚并(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
萘烯(ANY), 萘(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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Testing Center-Chemical Laboratory

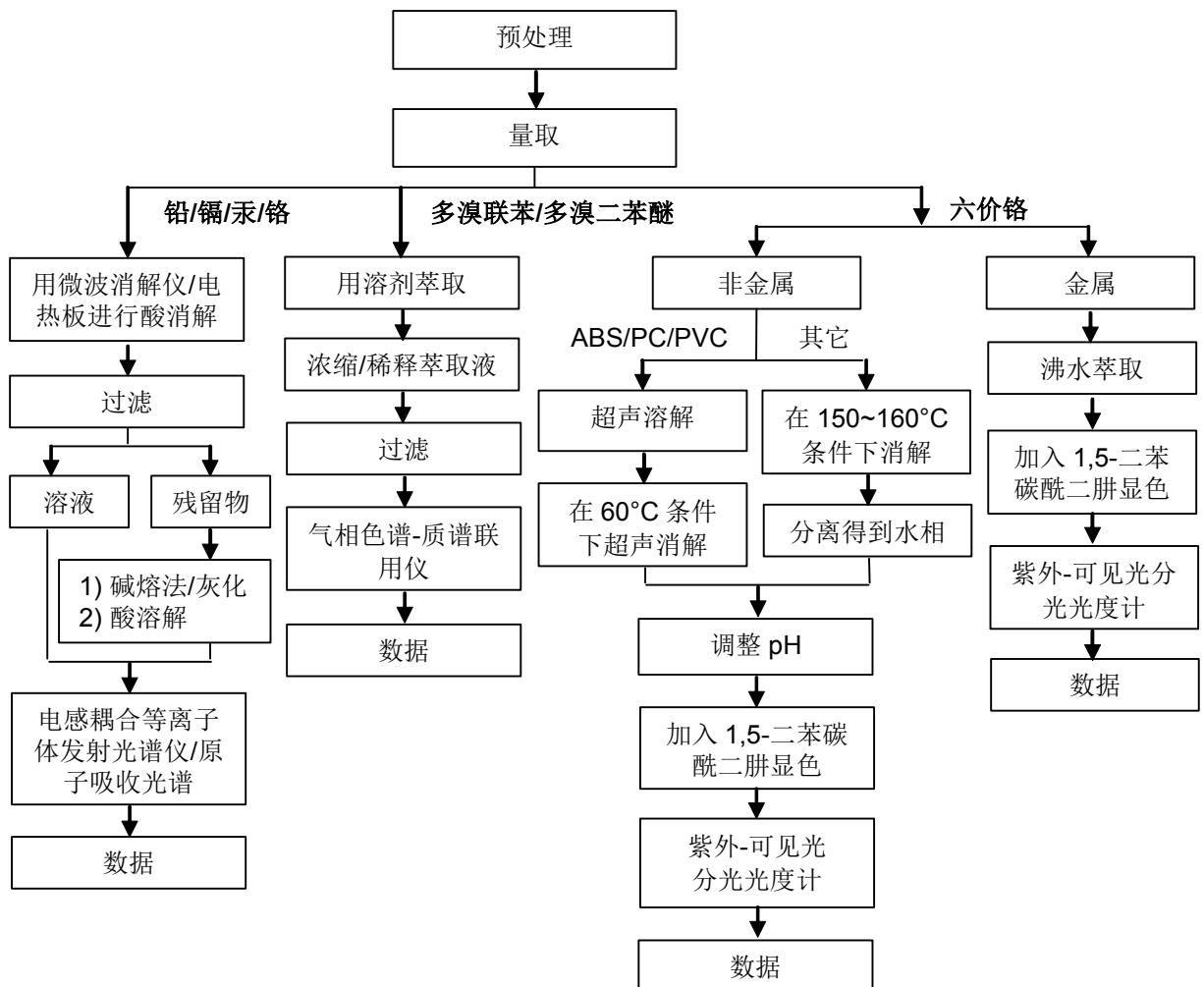
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员: 金叶/徐刚/杨小龙 /宋珂静
- 2) 项目负责人: 施青/黄婷/徐亮/王晓艳
- 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)。



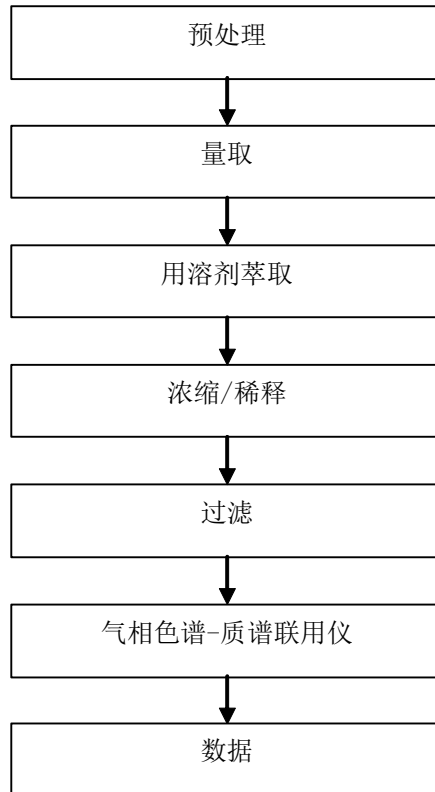
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Phthalates 测试流程图

- 1) 分析人员: 高仰景
- 2) 项目负责人: 黄婷



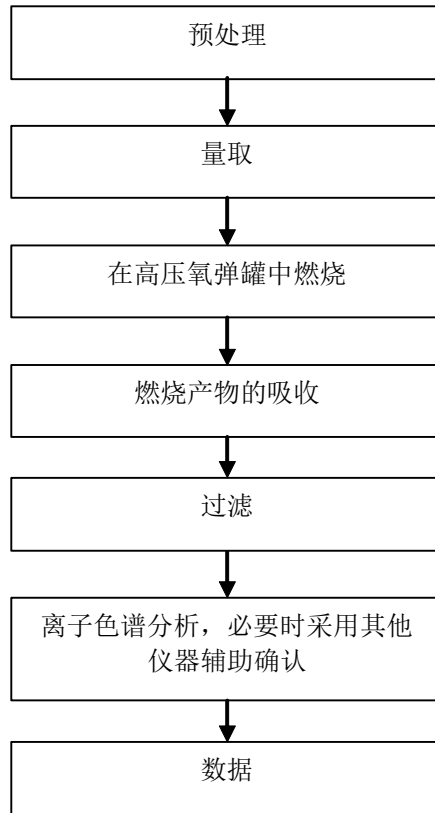
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Halogen(氧弹法)测试流程图

- 1) 分析人员: 徐诚
- 2) 项目负责人: 印宇



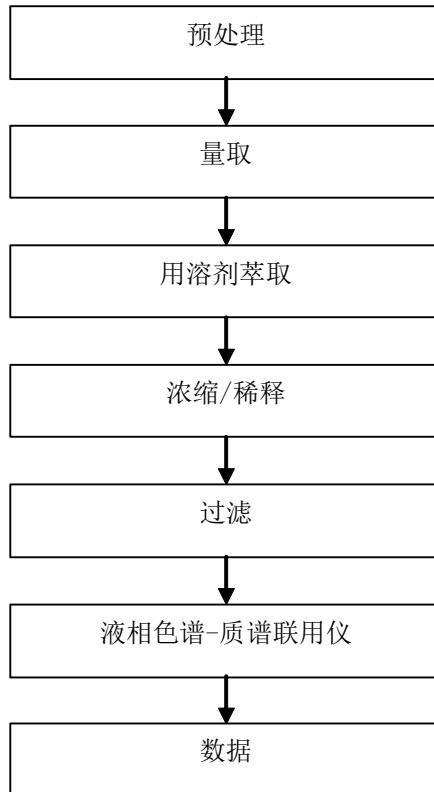
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PFOS/PFOA 测试流程图

- 1) 分析人员: 杨占君
- 2) 项目负责人: 马永存



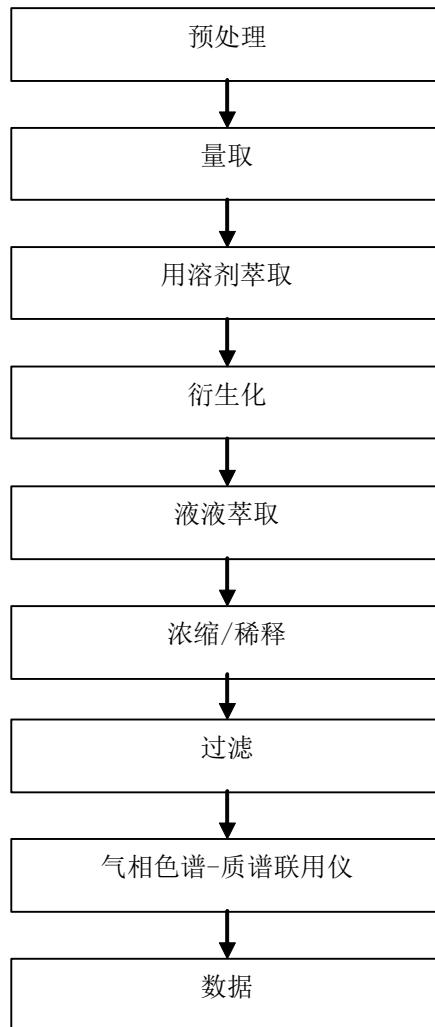
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Organotin 测试流程图

- 1) 分析人员: 邓峻
- 2) 项目负责人: 黄婷

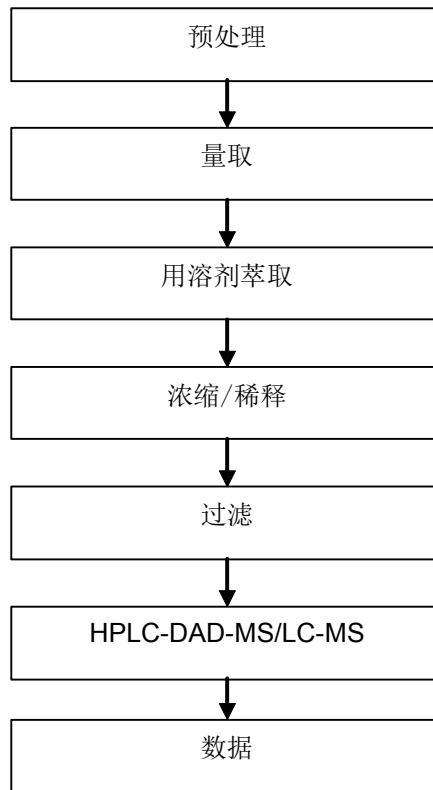


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BPA 测试流程图

- 1) 分析人员: 陈燕华
- 2) 项目负责人: 李晓茹



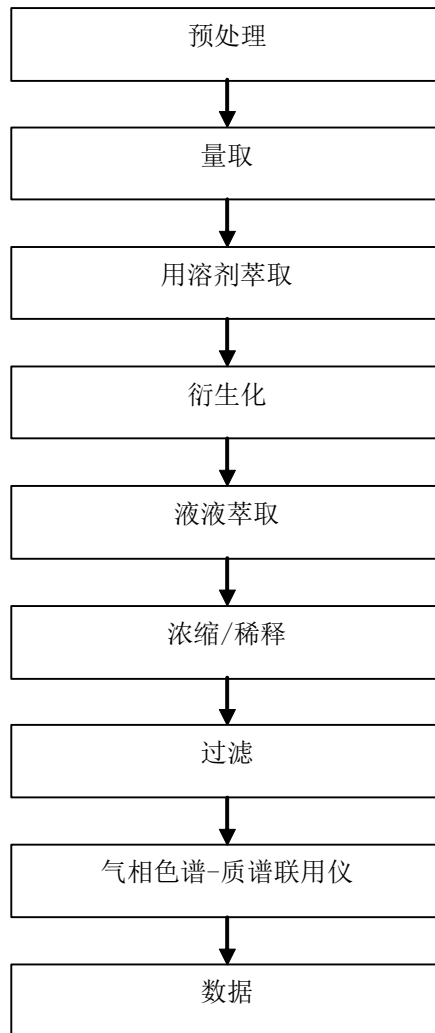
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TBBP-A 测试流程图

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- 2) 项目负责人: 黄婷



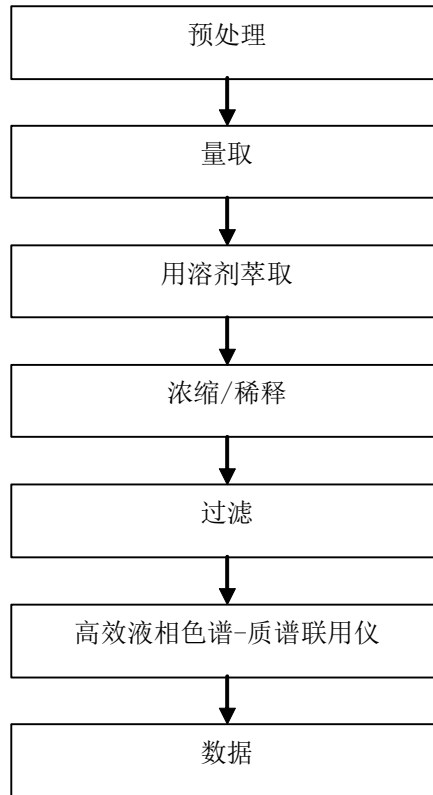
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NP / OP / NPEOs / OPEOs 测试流程图

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- 2) 项目负责人: 马永存



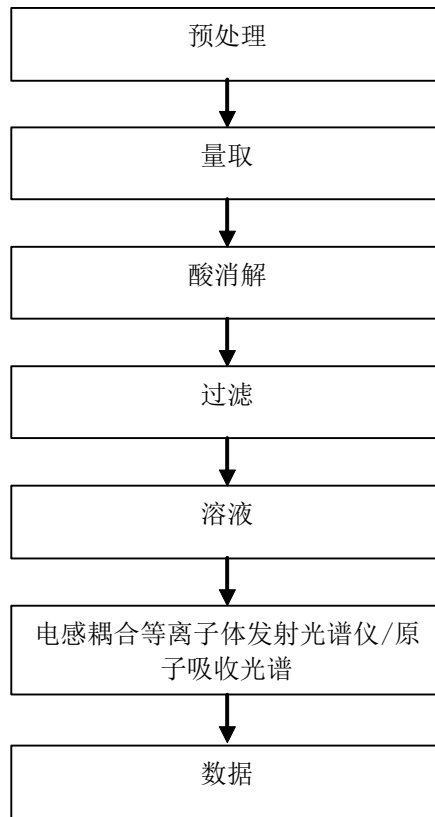
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元素测试流程图

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- 2) 项目负责人: 徐亮/施青



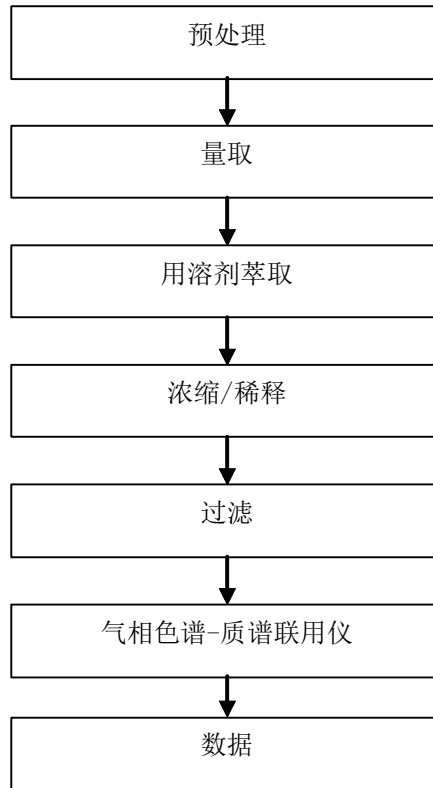
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DMF(富马酸二甲酯)测试流程图

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- 2) 项目负责人: 黄婷

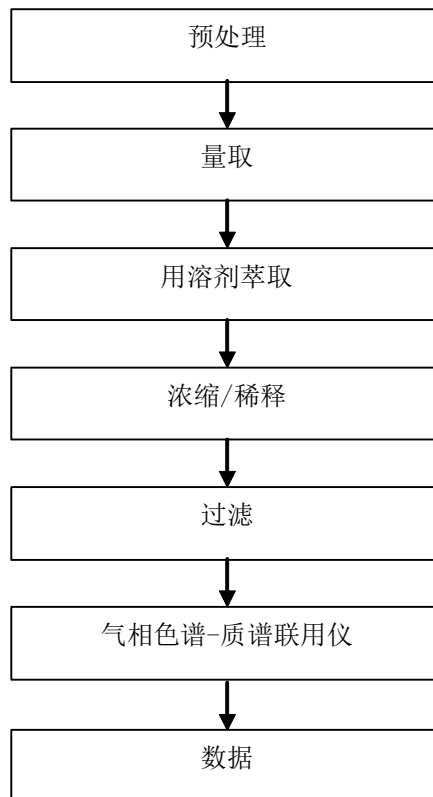


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PAHs 测试流程图

- 1) 分析人员: 高仰景
- 2) 项目负责人: 黄婷



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