

No. CANEC2103822808

日期: 2021年04月08日 第1页,共19页

建滔积层板控股有限公司 香港新界沙田安耀街三号汇达大厦二十三楼

以下测试之样品是由申请者所提供及确认: KB-5150

SGS工作编号: CP21-010894 - GZ

型号: KB-5150

客户参考信息: KB-5150A,KB-5150&,KB-5150H

样品接收日期: 2021年03月16日

测试周期: 2021年03月16日 - 2021年04月07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。

通标标准技术服务有限公司广州分公司 授权签名



Jessie Li李嘉欣 批准签署人





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测试报告 日期: 2021年04月08日 第2页,共19页 No. CANEC2103822808

测试结果:

测试样品描述:

样品编号 SGS样品ID 描述

SN1 CAN21-038228.002 黄色单面覆铜板(取用无红色"KB"印字部分测试)

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+A1:2017, 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)	1,000	mg/kg	2	8
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	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
五溴二苯醚	-	mg/kg	5	ND



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测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
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)	1,000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	50	ND

备注:

- (1)最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) 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 37.25

(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。

元素分析

测试方法: SGS内部方法(GZTC CHEM-TOP-004-01,参考EPA 3052: 1996),采用ICP-OES进行分析。

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
砷 (As)	mg/kg	10	ND
锑 (Sb)	mg/kg	10	7550

四溴双酚-A

测试方法: SGS内部方法(GZTC CHEM-TOP-065,参考EPA 3540C:1996 & EPA 8270E:2017),采

用LC-MS/MS进行分析。

<u>测试项目</u> <u>单位</u> <u>MDL</u> <u>002</u> 四溴双酚-A mg/kg 5 ND

红磷

测试方法: SGS内部方法(GZTC CHEM-TOP-215-01),采用PY-GC/MS / ICP-OES进行分析。



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测试项目 单位 **MDL** 002 500 ND 红磷 mg/kg

邻苯二甲酸盐(或酯)

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

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%(w/w)	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.003	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.003	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	%(w/w)	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.003	ND
邻苯二甲酸二苄酯 (DBzP)	523-31-9	%(w/w)	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%(w/w)	0.003	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.010	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.003	ND
邻苯二甲酸二烯丙酯 (DAP)	131-17-9	%(w/w)	0.003	ND
邻苯二甲酸癸基辛基酯 (nDnOP)	119-07-3	%(w/w)	0.003	ND
邻苯二甲酸二癸酯 (DnDP)	84-77-5	%(w/w)	0.003	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	%(w/w)	0.003	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	%(w/w)	0.010	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.010	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	%(w/w)	0.003	ND



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CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
146-50-9	%(w/w)	0.003	ND
605-54-9	%(w/w)	0.003	ND
117-83-9	%(w/w)	0.003	ND
3648-20-2	%(w/w)	0.003	ND
33703-08-1	%(w/w)	0.010	ND
119-06-2	%(w/w)	0.003	ND
3319-31-1	%(w/w)	0.003	ND
6422-86-2	%(w/w)	0.003	ND
3648-21-3	%(w/w)	0.003	ND
77-90-7	%(w/w)	0.010	ND
84777-06-0	%(w/w)	0.010	ND
68515-50-4	%(w/w)	0.010	ND
53306-54-0	%(w/w)	0.010	ND
	146-50-9 605-54-9 117-83-9 3648-20-2 33703-08-1 119-06-2 3319-31-1 6422-86-2 3648-21-3 77-90-7 84777-06-0 68515-50-4	146-50-9 %(w/w) 605-54-9 %(w/w) 117-83-9 %(w/w) 3648-20-2 %(w/w) 33703-08-1 %(w/w) 119-06-2 %(w/w) 3319-31-1 %(w/w) 6422-86-2 %(w/w) 3648-21-3 %(w/w) 77-90-7 %(w/w) 84777-06-0 %(w/w) 68515-50-4 %(w/w)	146-50-9 %(w/w) 0.003 605-54-9 %(w/w) 0.003 117-83-9 %(w/w) 0.003 3648-20-2 %(w/w) 0.003 33703-08-1 %(w/w) 0.010 119-06-2 %(w/w) 0.003 3319-31-1 %(w/w) 0.003 6422-86-2 %(w/w) 0.003 3648-21-3 %(w/w) 0.003 77-90-7 %(w/w) 0.010 84777-06-0 %(w/w) 0.010 68515-50-4 %(w/w) 0.010

备注:

- (1) DBP、BBP、DEHP、DIBP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及其修正法 案(EU) 2018/2005 第51条:
- i) 不允许DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高于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单一质量浓度或质量浓度总和等于或高 于0.1%时,不得投放市场。另外,当玩具和儿童护理品中的可塑性物料含DIBP单一质量浓度 或DBP、BBP、DEHP、DIBP质量浓度总和等于或高于0.1%时,2020年7月7日后不得投放市场。
- iii) 当成品中的可塑性物料含DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高 于0.1%时,2020年7月7日后不得投放市场。

详细信息请参见Regulation (EU) 2018/2005

- (2) DINP、DNOP、DIDP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及修正法案(EU) 2015/326 第52条:
- 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 (EU) 2015/326

甲醛

测试方法: 参考 ISO 14184-1:2011, 用 UV-Vis分析。

测试项目 CAS NO. 单位 MDL 002 甲醛 50-00-0 mg/kg 16 ND

六溴环十二烷(HBCDD)



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测试方法: SGS 内部方法(GZTC CHEM-TOP-073, 参考EPA 3550C:2007), 采用GC-MS进行分析。

<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD,	25637-99-4	mg/kg	10	ND
β-HBCDD, γ-HBCDD)	3194-55-6			
	134237-50-6			
	134237-51-7			
	134237-52-8			

全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物

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

测试项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>002</u>
全氟辛酸 (PFOA)及其盐+	335-67-1	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS) [^]	1763-23-1	mg/kg	0.010	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	mg/kg	-	ND

备注:

(1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);

(2) ^ 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 No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)

有机锡

测试方法: SGS内部方法(GZTC CHEM-TOP-031,参考ISO 17353:2004),采用GC-MS进行分析。

<u>测试项目</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡(TBT)	mg/kg	0.02	ND
三苯基锡(TPhT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND



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测试报告 No. CANEC2103822808 日期: 2021年04月08日 第7页,共19页

欧盟POPs法规(EU) 2019/1021-短链氯化石蜡 (SCCPs)

测试方法: 参考ISO 18219: 2015, 采用GC-NCI-MS / GC-ECD 进行分析。

测试项目 限值 单位 002 **MDL** 短链氯化石蜡(C10-C13) (SCCPs) 1500 mg/kg 50 ND 评论 符合

AfPS GS 2019:01 PAK-多环芳香烃

参考AfPS GS 2019:01 PAK测试,采用 GC-MS进行分析。 测试方法:

<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	002
萘 (NAP)	91-20-3	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
蒀 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并 (j) 荧蒽 (B j F)	205-82-3	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d) 芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)菲(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
4项多环芳香烃总和(菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧	-	mg/kg	-	ND
蒽 (FLT))				
15项多环芳香烃总和	-	mg/kg	-	ND



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No. CANEC2103822808

日期: 2021年04月08日 第8页,共19页

AfPS (德国产品安全委员会):多环芳香烃的要求

	1 类	2	2 类 3 类		
参数 (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	可预见₫与皮脂	不属于第1类,设计意图或 可预见 ^d 与皮肤长期接触 (超过 30 秒)或短期重复 接触 ^o 的材料		皮肤短期接触
	的玩具,或 -供3岁以下儿童 ^{a,b} 使 用。	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
莊 (CHR)	< 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),	< 1	< 5	< 10	< 20	< 50
蒽 (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

注释:

- a儿童是指法定年龄未满 14 周岁的人。
- ▷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。

苯并三唑类紫外吸收剂

测试方法: SGS内部方法(GZTC CHEM-TOP-102,参考EPA 3550C:2007),采用 GC-MS进行分析。

测试项目CAS NO.单位MDL0022-(2'-羟基-3',5'-二叔丁基苯基)-苯3846-71-7mg/kg5ND

并三唑



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测试报告	No. CANEC210382280	lo. CANEC2103822808		021年04月08日	第9页,共19页
<u>测试项目</u> 2-(2'-羟基-3',5'-二叔丁基苯 基)-5-氯代苯并三唑	<u>CAS NO.</u> 3864-99-1	<u>单位</u> mg/kg	<u>MDL</u> 5	<u>002</u> ND	
2-(2'- 羟基 -3',5'- 二叔戊基苯基)苯 并三唑	25973-55-1	mg/kg	5	ND	
2-(2'-羟基-3'-异丁基-5'-叔丁基苯 基)苯并三唑	36437-37-3	mg/kg	5	ND	

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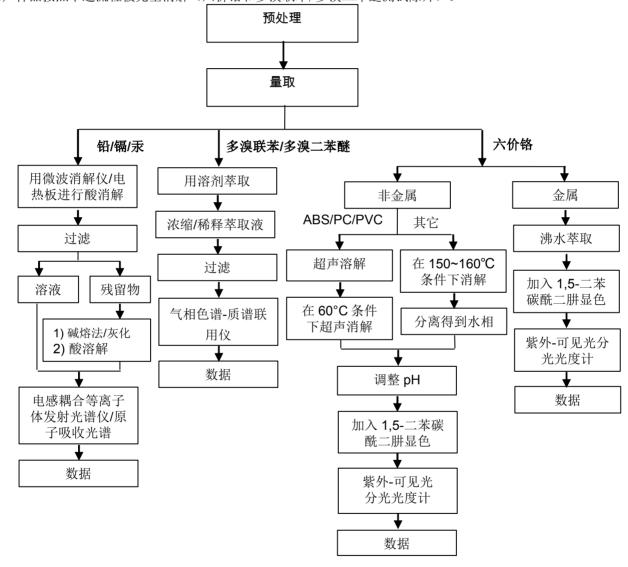
No. CANEC2103822808

日期: 2021年04月08日 第10页,共19页

附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

- 1) 分析人员: 张梓路 / 胡香云
- 2) 项目负责人: 汪丹 / 刘琼
- 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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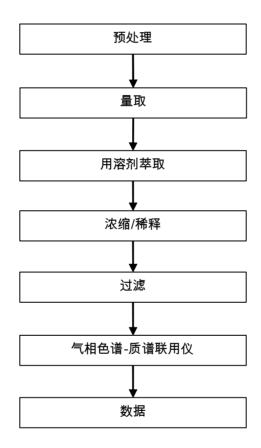
No. CANEC2103822808

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附件

Phthalates 测试流程图

1) 分析人员:胡香云 2) 项目负责人:刘琼





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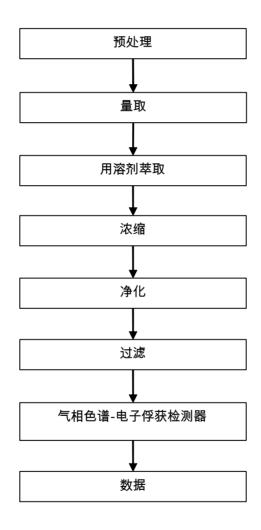
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附件

SCCP/MCCP/LCCP 测试流程图

1) 分析人员: 陈美娜 2) 项目负责人: 刘琼





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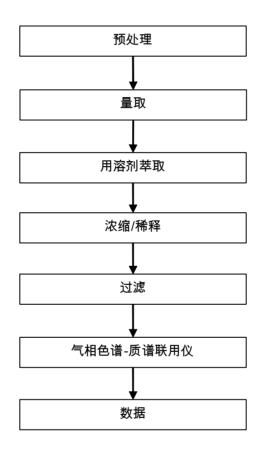
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附件

HBCDD 测试流程图

1) 分析人员:胡香云2) 项目负责人:刘琼





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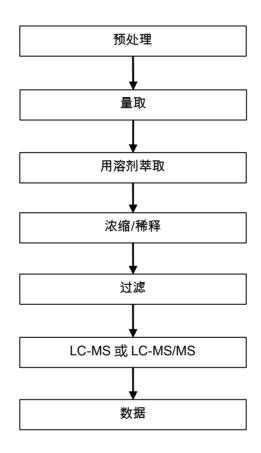
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附件

PFOA / PFOS 测试流程图

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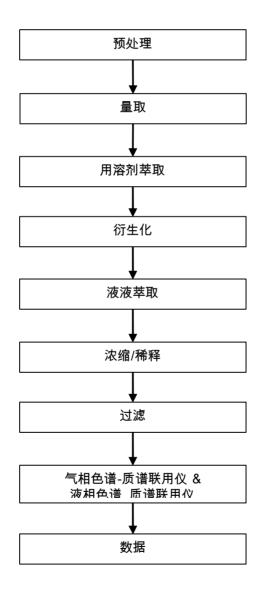
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附件

TBBP-A 测试流程图

1) 分析人员: 李玉金 2) 项目负责人: 刘琼





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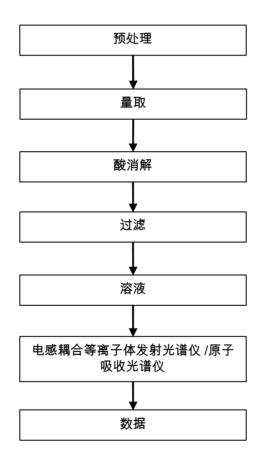
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元素测试流程图

1) 分析人员:张梓路 2) 项目负责人:汪丹





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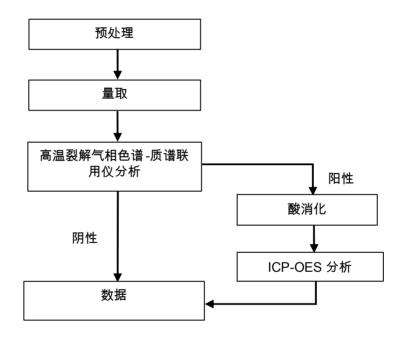
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附件

红磷测试流程图

1) 分析人员: 黄迅 2) 项目负责人: 刘琼





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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555

www.sgsgroup.com.cn sgs.china@sgs.com



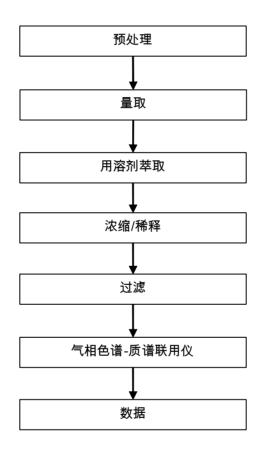
No. CANEC2103822808

日期: 2021年04月08日 第18页,共19页

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PAHs 测试流程图

1) 分析人员:张金花 2) 项目负责人:刘琼





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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663

中国·广州·经济技术开发区科学城科珠路198号

邮编: 510663 t (86-20) 82155555

www.sgsgroup.com.cn sgs.china@sgs.com

t (86-20) 82155555