

检测报告 编号: SHAEC2206796013 日期: 2022年06月22日 第1页,共16页

客户名称: 深圳市百利合新材料发展有限公司

客户地址: 深圳市龙华区观澜街道库坑社区库坑观光路1310号厂房1栋408

样品名称: 感光湿膜 型号: BLK-9000

以上样品及信息由客户提供。

SGS工作编号: SP22-010229 - SH 样品接收日期: 2022年06月13日

检测周期: 2022年06月13日 - 2022年06月22日

检测要求: 根据客户要求检测 检测方法: 请参见下一页

检测结果: 请参见下一页

基于所送样品进行的检测,镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯 结论:

> 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 检测结果符合欧盟RoHS指令2011/65/EU附录Ⅱ的修正指令(EU) 2015/863的限值

要求。

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Jenny Lan兰柳珍 批准签署人





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检测结果:

检测样品描述:

样品编号 SGS样品ID 描述 SN1 SHA22-067960.004 白色液体

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

检测方法: 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。

<u>检测项目</u>	限值	<u>单位</u>	<u>MDL</u>	<u>004</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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检测项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</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。

卤素

检测方法: 参照EN 14582: 2016方法 测定, 采用 IC进行分析.

检测项目	单位	<u>MDL</u>	<u>004</u>
氟 (F)	mg/kg	50	ND
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素

检测方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

<u>检测项目</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>
锑(Sb)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND
砷 (As)	mg/kg	10	ND



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检测报告 日期: 2022年06月22日 第4页,共16页 编号: SHAEC2206796013

四溴双酚-A

检测方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS/LC-MS进行分析.

检测项目 单位 **MDL** 004 四溴双酚-A mg/kg 10 ND

聚氯乙烯(PVC)

检测方法: 以内定方法(SHTC-CHEM-SOP-115-T) 测定, 采用FTIR/HATR进行分析.

检测项目 <u>004</u> CAS NO. 单位 **MDL** 聚氯乙烯(PVC) 9002-86-2 阴性

备注:

(1) 阴性=未检测到,阳性=已检测到

六溴环十二烷(HBCDD)

检测方法: 参考IEC 62321:2008. 采用GC-MS分析六溴环十二烷含量.

检测项目 单位 004 **MDL** 六溴环十二烷(HBCDD) ND mg/kg 10

邻苯二甲酸酯

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

<u>检测项目</u>	<u>CAS NO.</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/	%	0.01	ND
	68515-48-0			
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0	%	0.01	ND
	/68515-49-1			
邻苯二甲酸二戊酯(DnPP)	131-18-0	%	0.003	ND

全氟辛烷磺酸 (PFOS)及衍生物和全氟辛酸(PFOA)



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检测报告 编号: SHAEC2206796013 日期: 2022年06月22日 第5页,共16页

检测方法: 参考 CEN/TS 15968: 2010方法, 采用HPLC-MS 或LC-MS-MS进行分析。

检测项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>004</u>
全氟辛烷磺酸(PFOS)及衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS)^	1763-23-1	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.01	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	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)

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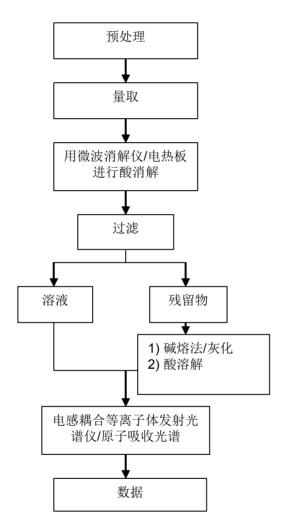


附件

编号: SHAEC2206796013 日期: 2022年06月22日 第6页,共16页

元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解





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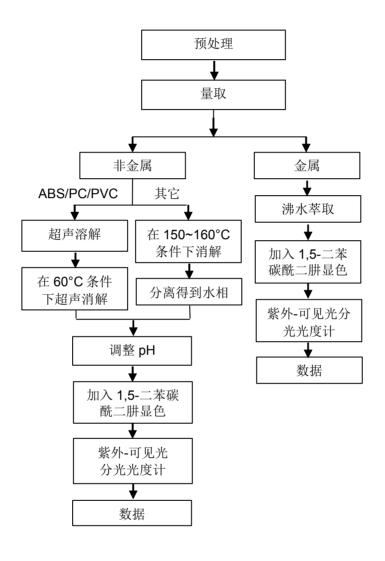


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编号: SHAEC2206796013

日期: 2022年06月22日 第7页,共16页

六价铬检测流程图





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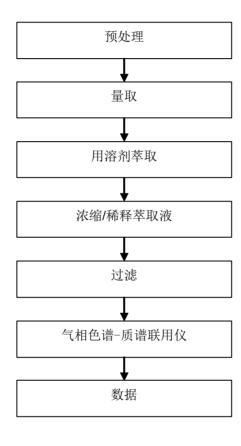


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编号: SHAEC2206796013

日期: 2022年06月22日 第8页,共16页

PBBs/PBDEs 检测流程图





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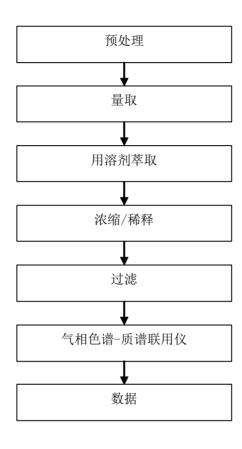


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日期: 2022年06月22日 第9页,共16页

Phthalates 检测流程图





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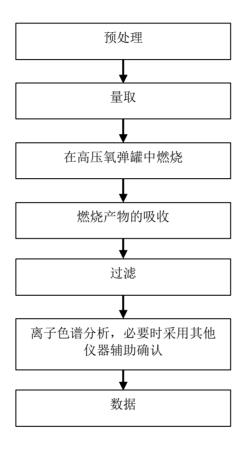


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编号: SHAEC2206796013

日期: 2022年06月22日 第10页,共16页

Halogen(氧弹法)检测流程图





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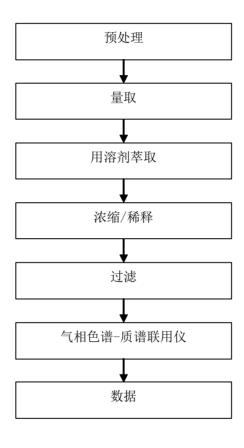


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HBCDD 测试流程图





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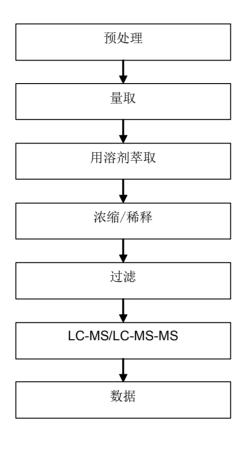


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PFASs/ PFOS/PFOA 检测流程图





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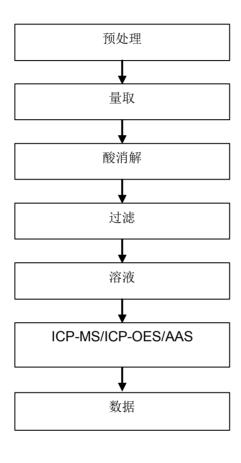


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元素检测流程图





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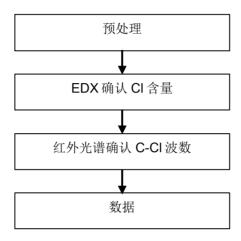


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PVC 检测流程图





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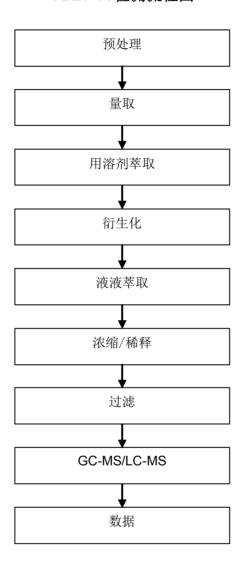


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TBBP-A 检测流程图





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