

检测报告

编号: SHAEC2206796003

日期: 2022年06月22日 第1页,共16页

客户名称: 深圳市德贝尔光电材料有限公司

客户地址: 深圳市宝安区福海街道和平社区骏丰工业区综合楼B5-1栋A座820

样品名称: 感光湿膜

型号: BLK-1000

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

结论: 基于所送样品进行的检测, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苯酯(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))的检测结果显示符合欧盟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
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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	SHA22-067960.001	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。

检测项目	限值	单位	MDL	001
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	限值	单位	MDL	001
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:1258637,25

(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	MDL	001
氟 (F)	mg/kg	50	ND
氯 (Cl)	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。

检测项目	单位	MDL	001
铈 (Sb)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND
砷 (As)	mg/kg	10	ND



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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	001
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	CAS NO.	单位	MDL	001
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	MDL	001
六溴环十二烷(HBCDD)	mg/kg	10	ND

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.

检测项目	CAS NO.	单位	MDL	001
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	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.	单位	MDL	001
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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 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。
 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。

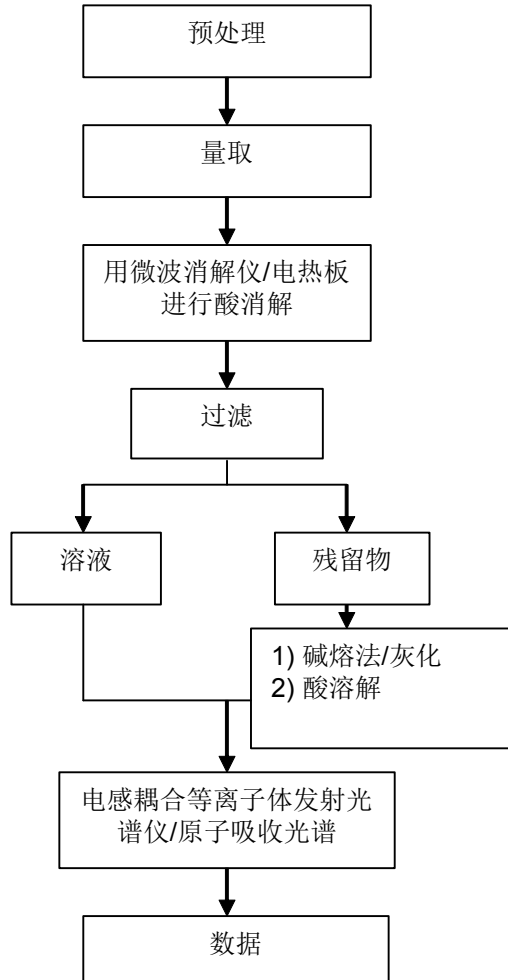


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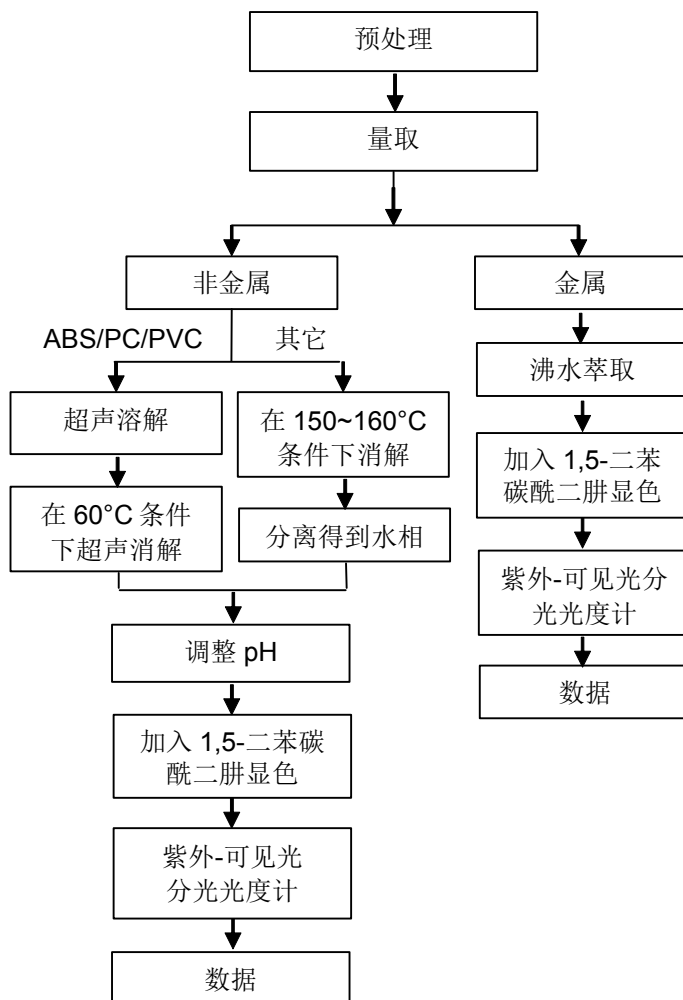
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元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解



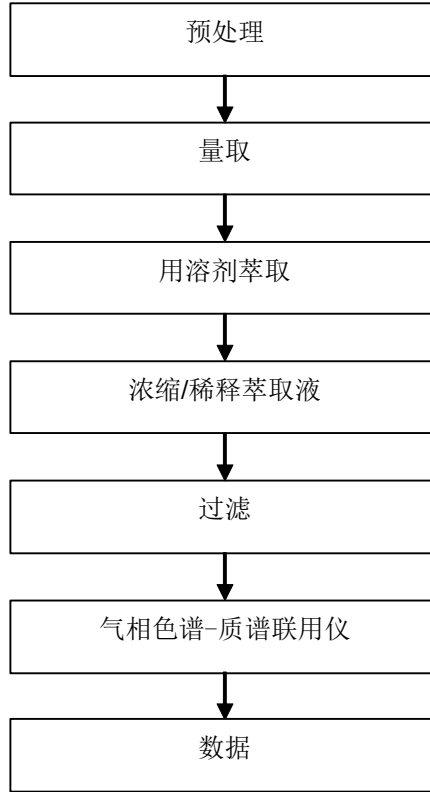
六价铬检测流程图



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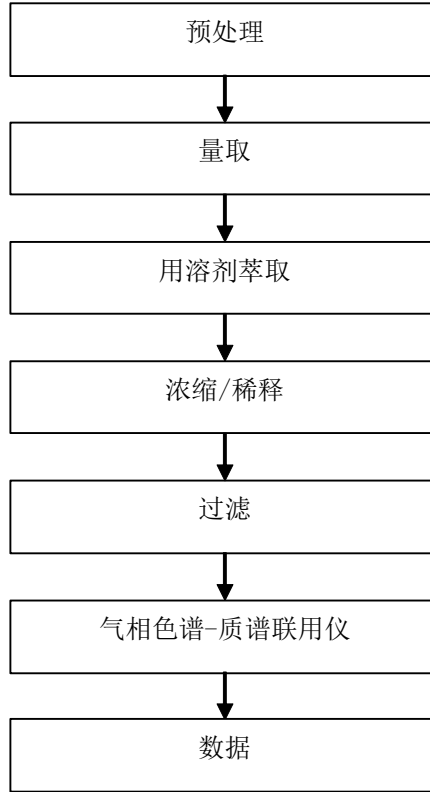
PBBs/PBDEs 检测流程图



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Phthalates 检测流程图



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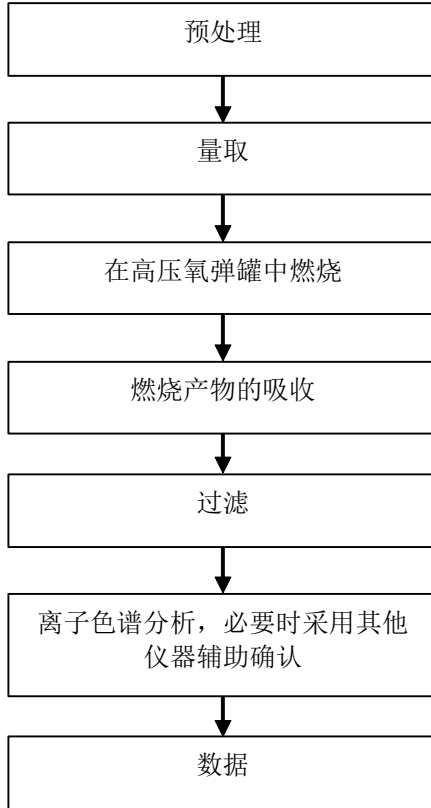
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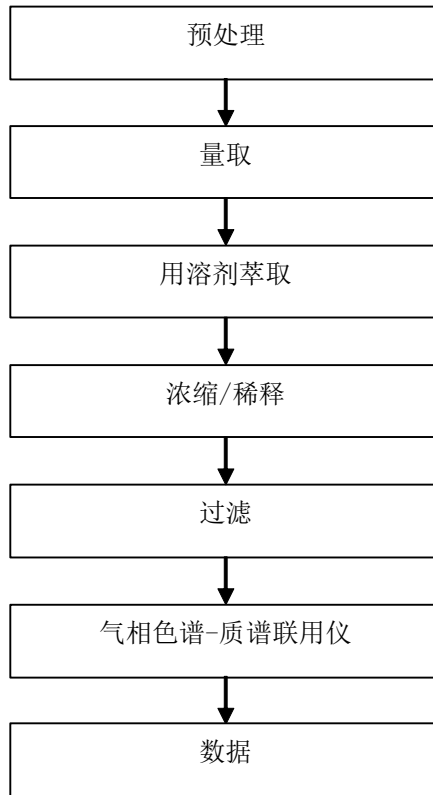
Halogen(氧弹法)检测流程图



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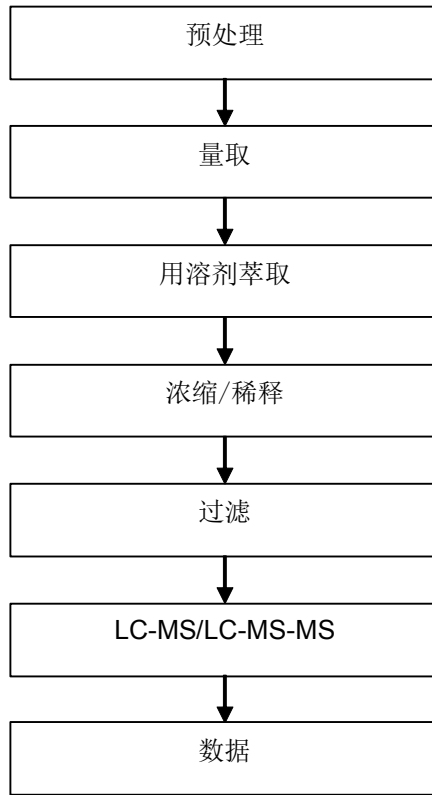
HBCDD 测试流程图



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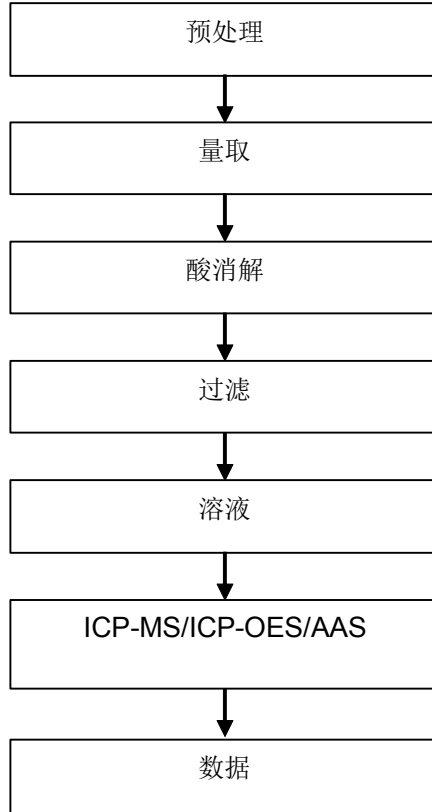
PFASs/ PFOS/PFOA 检测流程图



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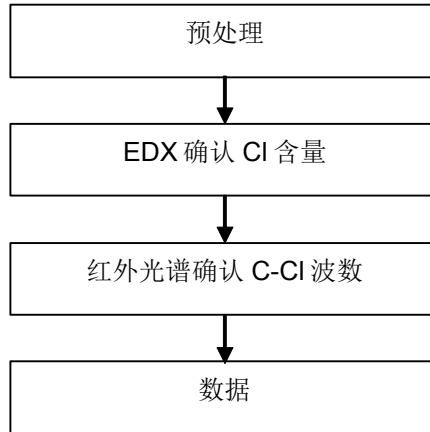
元素检测流程图



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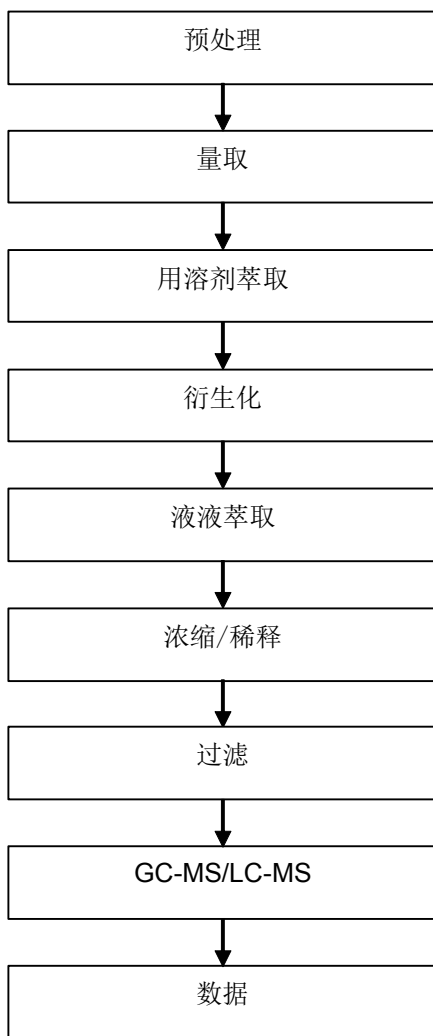
PVC 检测流程图



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TBBP-A 检测流程图



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