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检测
TESTING
CNAS L2774

检测报告

编号: TSNEC2301440502

日期: 2023年06月05日 第1页,共16页

客户名称: 天津莱尔德电子材料有限公司
客户地址: 天津经济技术开发区泰丰路87号宏泰工业园C3&C4厂房

样品名称: Thermally conductive material
主要成份: Silicone, Boron Nitride, and Fiberglass
型号: Tgard 200B
以上样品及信息由客户提供。

SGS工作编号: TP23-004465 - TJ
样品接收日期: 2023年05月30日
检测周期: 2023年05月30日 - 2023年06月05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

检测结果概要:

检测要求	结论
欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863- 铅,汞,镉,六价铬,多溴联苯(PBBs),多溴二苯醚(PBDEs),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)	符合
卤素	见检测结果
元素分析	见检测结果
硫(S)	见检测结果
全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA) 及其盐	见检测结果
六溴环十二烷 (HBCDD/HBCD)	见检测结果
邻苯二甲酸酯	见检测结果



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Reabeca Zhou 周艳
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Chemical Laboratory

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日期: 2023年06月05日 第3页,共16页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TSN23-014405.001	蓝色片

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

欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863- 铅,汞,镉,六价铬,多溴联苯(PBBs),多溴二苯醚(PBDEs),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)

检测方法: 参考IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, 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。
- (2) IEC 62321 系列等同于 EN 62321 系列。
- (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。

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

元素分析

检测方法: SGS 内部方法-TJChemLab-TOP-004-2, 采用ICP-OES进行分析。

检测项目	单位	MDL	001
锑 (Sb)	mg/kg	10	ND

硫(S)



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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
硫(S)	mg/kg	30	71

全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

检测方法: 参考CEN/TS 15968:2010方法,采用LC/MSMS检测.

检测项目	CAS NO.	单位	MDL	001
全氟辛烷磺酸(PFOS)及其衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS)^	1763-23-1	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	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
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) ^ 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)

(2) + 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)

六溴环十二烷(HBCDD/HBCD)

检测方法: 参考IEC 62321-9:2021方法测定,采用GC-MS进行分析.

检测项目	单位	MDL	001
六溴环十二烷(HBCDD/HBCD)	mg/kg	20	ND

邻苯二甲酸酯

检测方法: 参考IEC 62321-8:2017,用GC-MS测定邻苯二甲酸酯的含量.



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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	%(w/w)	0.005	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.005	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/ 68515-49-1	%(w/w)	0.005	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.005	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.005	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.005	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.005	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.005	ND
邻苯二甲酸正戊基异戊基酯(nPIPP)	776297-69-9	%(w/w)	0.005	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.005	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.005	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHpP)	71888-89-6	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%(w/w)	0.005	ND
邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%(w/w)	0.005	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	%(w/w)	0.005	ND
邻苯二甲酸二异己酯 (DIHP)	71850-09-4	%(w/w)	0.005	ND

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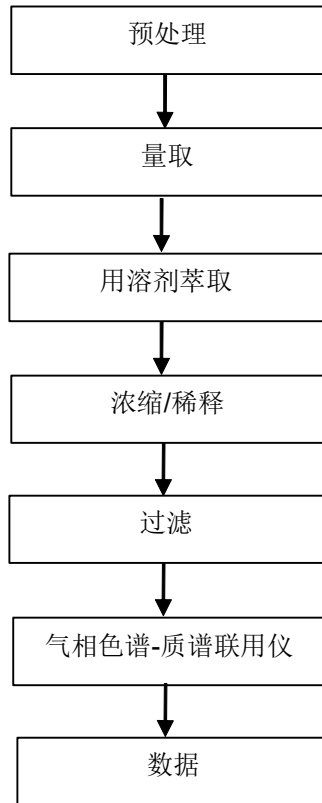
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附件

HBCDD(HBCD) 检测流程图



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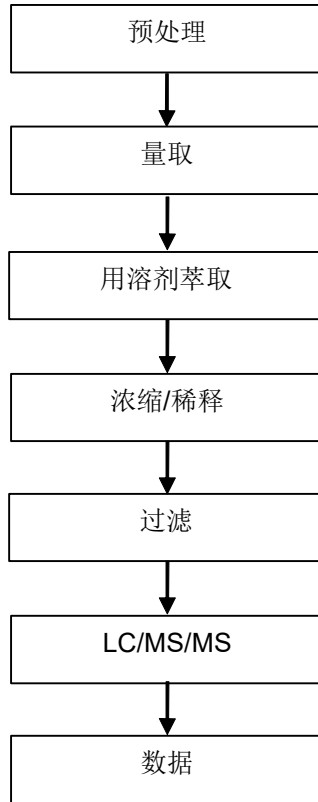
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PFOS/PFOA 检测流程图



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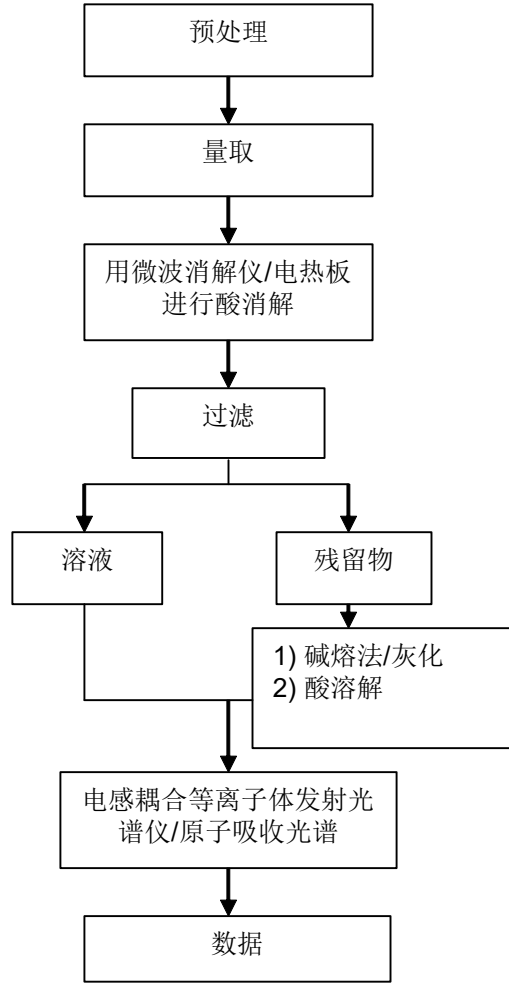
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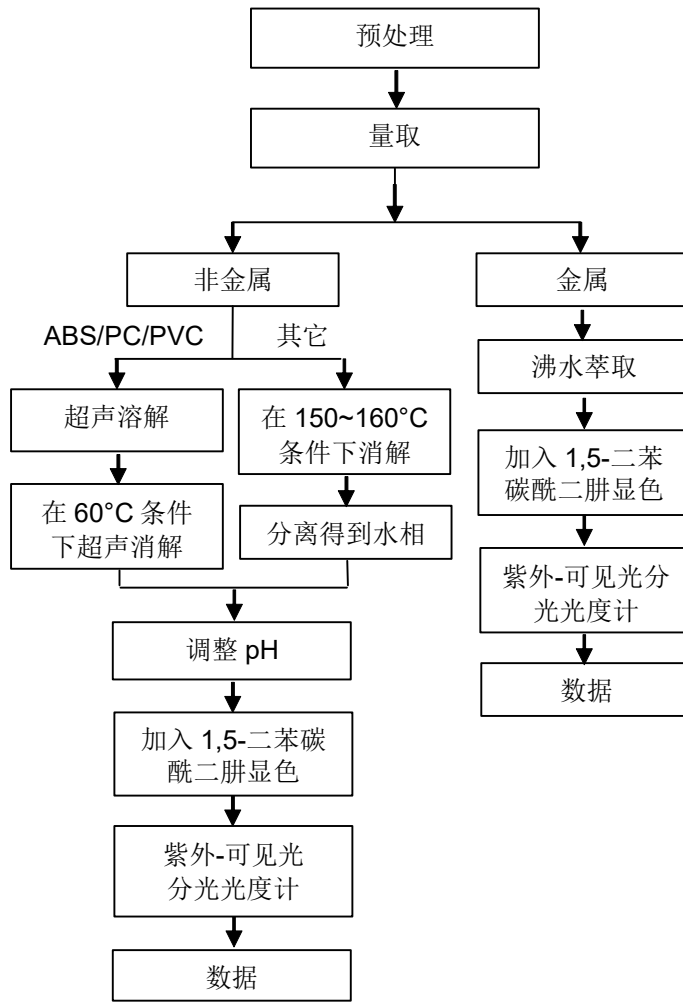
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元素(IEC62321) 检测流程图

1)样品按照下述流程被完全消解



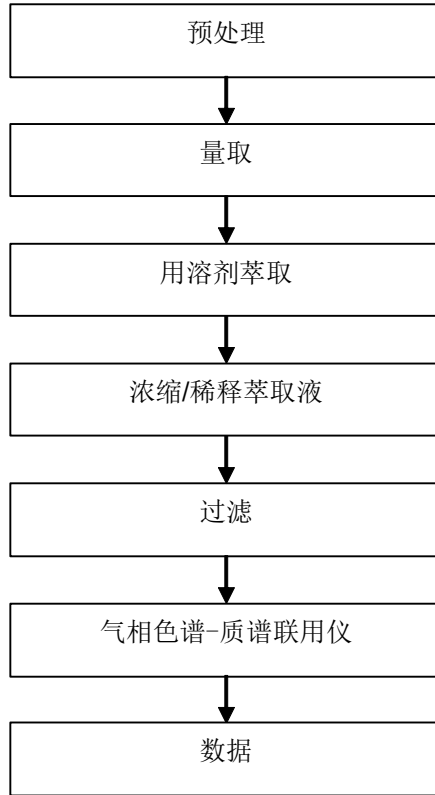
六价铬检测流程图



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PBBs/PBDEs 检测流程图



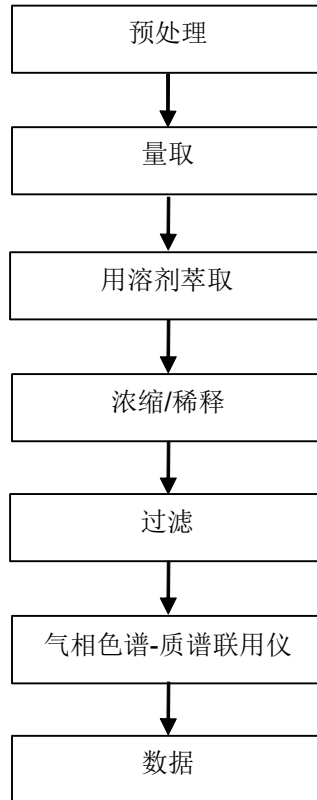
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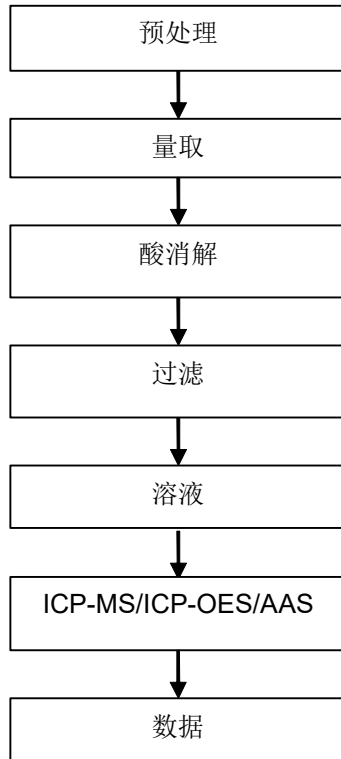
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附件

元素检测流程图

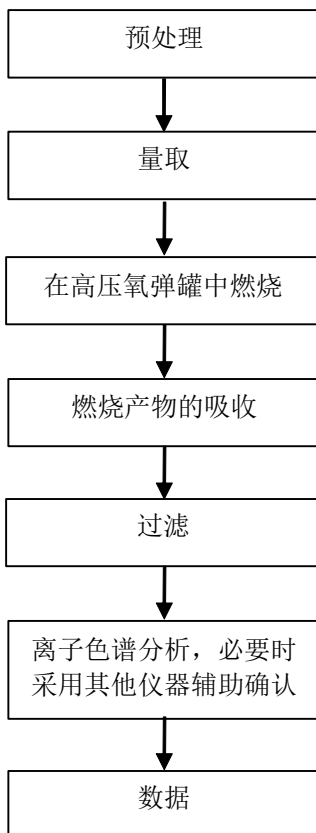


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卤素检测流程图



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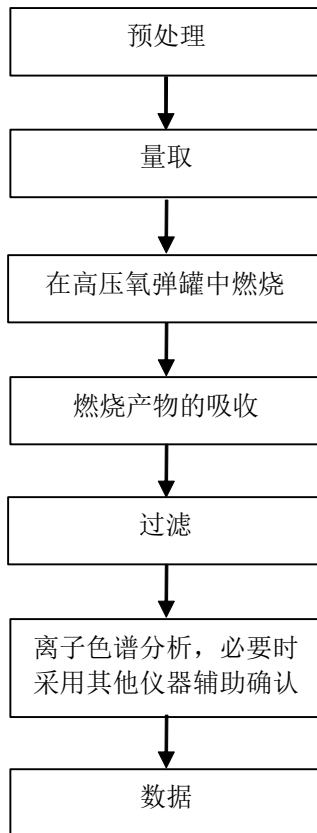
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硫检测流程图



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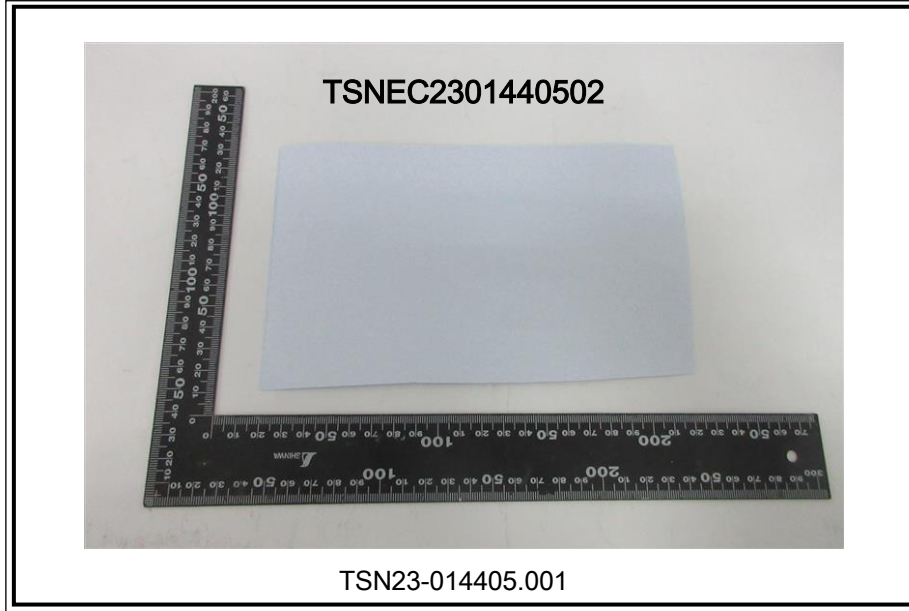
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