

## 检测报告

编号: TSNEC2200888002

日期: 2022年05月11日 第1页,共15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: ELECTRICALLY INSULATING THERMAL CONDUCTIVE MATERIAL  
型号: Tflex HD7.5  
主要成份: Silicone resin +aluminum Oxide  
以上样品及信息由客户提供。

SGS工作编号: TP22-002987 - TJ  
样品接收日期: 2022年04月22日  
检测周期: 2022年04月22日 - 2022年05月11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。

通标标准技术服务(天津)有限公司  
授权签名

Reabeca Zhou周艳  
批准签署人

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## 检测报告

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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	TSN22-008880.001	灰色片

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

### RoHS 指令2011/65/EU附录II的修正指令(EU) 2015/863

检测方法: 参考IEC 62321-5:2013, 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.

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](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

## 元素分析

检测方法: SGS 内部方法-TJChemLab-TOP-004-2 (参照US EPA 3052:1996、US EPA 3051A:2007、US EPA 6010C:2007), 采用ICP-OES进行分析。

检测项目	单位	MDL	001
锑 (Sb)	mg/kg	10	ND



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### 元素分析

检测方法: SGS内部方法(GZTC CHEM-TOP-111-02, 参照US EPA方法3052:1996), 采用ICP-OES进行分析。

检测项目	单位	MDL	001
硫(S)	mg/kg	10	ND

备注:

(1) 这项检测由SGS广州化学实验室操作。

### 红磷

检测方法: SGS内部方法(SGS-CCL-TOP-215-01), 采用ICP-OES和热裂解GC-MS进行分析。

检测项目	单位	MDL	001
红磷	mg/kg	500	ND

备注:

- (1) 阳性检测结果基于最坏情况考虑, 并经热裂解GC-MS确认。
- (2) 这项检测由SGS广州化学实验室操作。

### 六溴环十二烷(HBCDD/HBCD)

检测方法: SGS内部方法-TJChemLab-TOP-059 (参照US EPA 3550C:2007、US EPA 8270D:2014), 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	10	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。

检测项目	CAS NO.	单位	MDL	001
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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

### 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)



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No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1)

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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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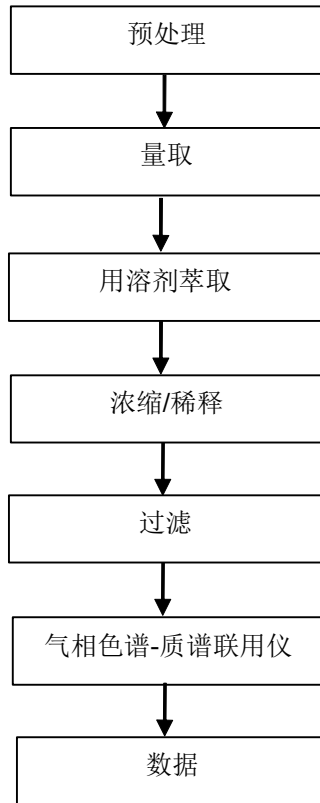
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附件

## HBCDD(HBCD) 检测流程图

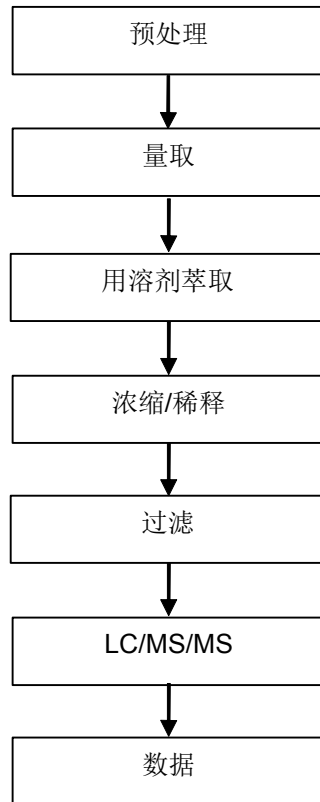


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附件

### PFOS/PFOA 检测流程图



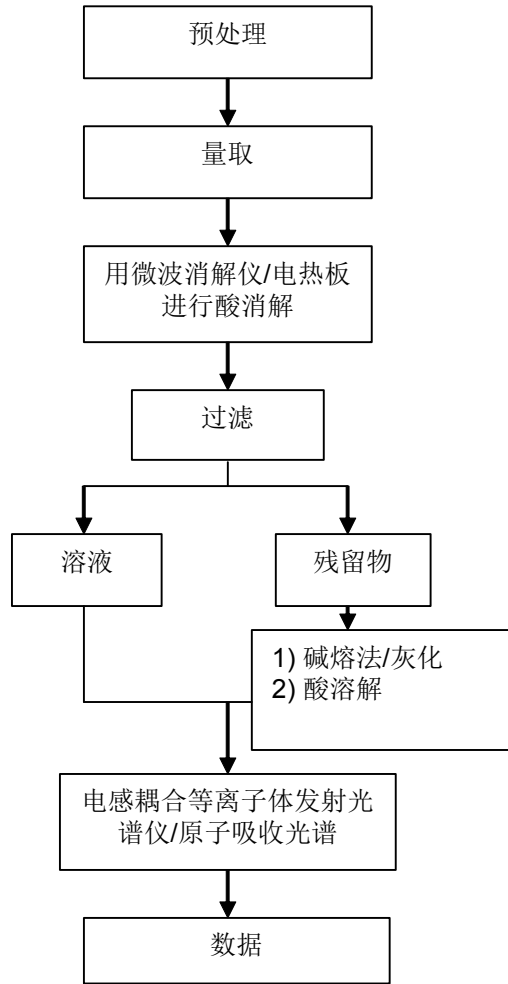
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## 元素(IEC62321) 检测流程图

1)样品按照下述流程被完全消解



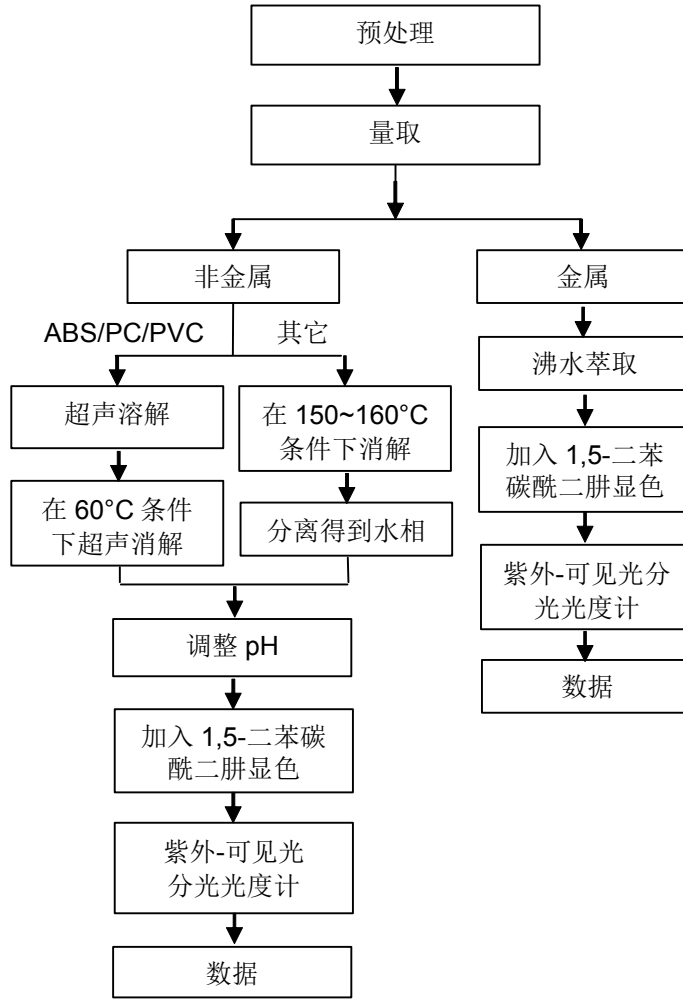
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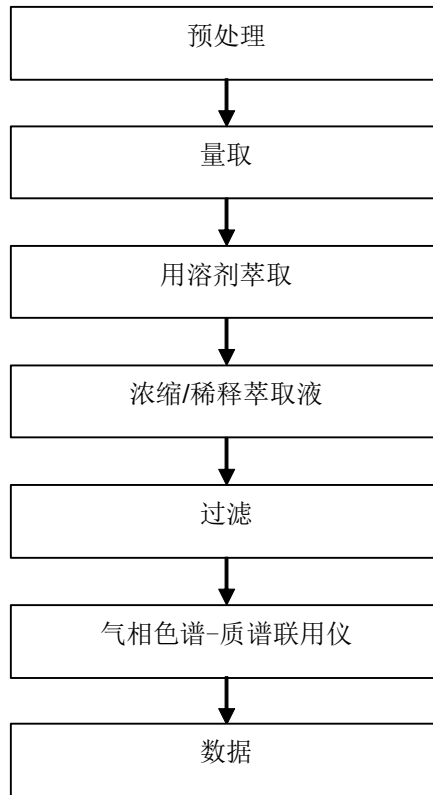
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## 六价铬检测流程图

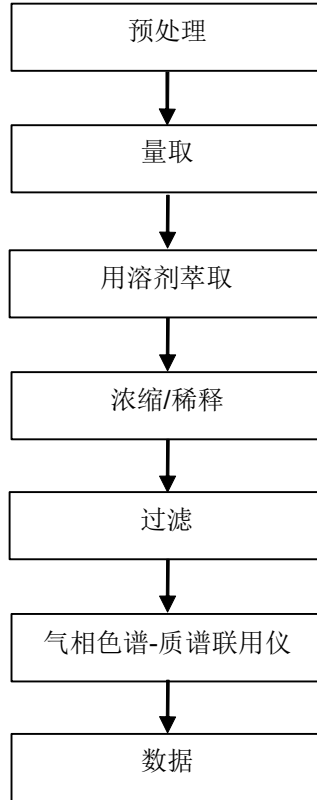


## 阻燃剂检测流程图



附件

### 邻苯二甲酸酯检测流程图



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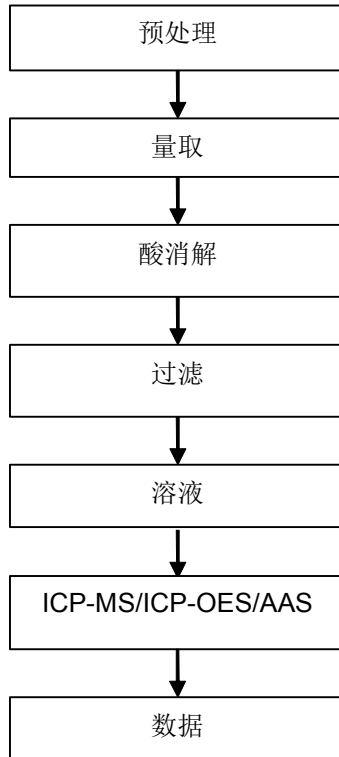
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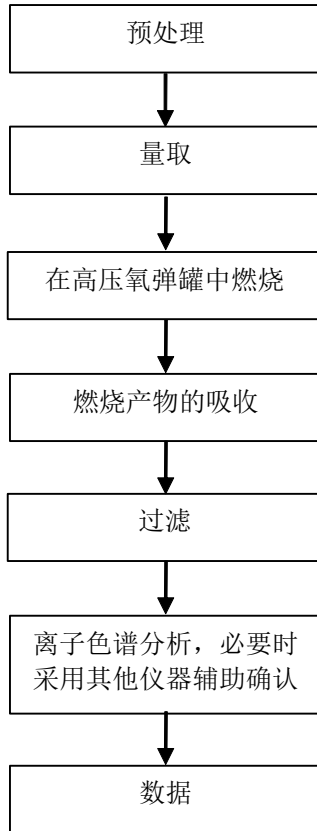
附件

元素检测流程图



附件

### 卤素检测流程图



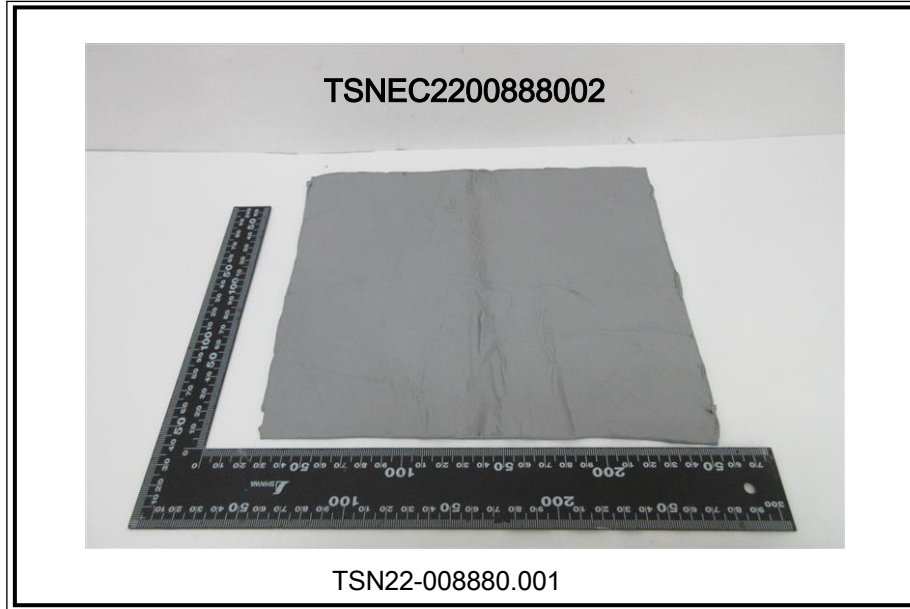
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