

### 检测报告 编号: CANEC25015535802

**日期: 2025 年 07 月 09 日** 

客户名称: 建滔积层板控股有限公司

客户地址: 香港新界沙田安耀街三号汇达大厦二十三楼

| 样品名称:         | 22F                      |    |
|---------------|--------------------------|----|
| 型号:           | KB-5152                  |    |
| 客户参考信息:       | KB-5152(FV1), KB-5152 (H | B) |
| 以上样品及信息由客户提供。 |                          |    |

| SGS 工作编号: | GZP25-017999            |
|-----------|-------------------------|
| 样品接收时间:   | 2025年06月27日             |
| 检测周期:     | 2025年06月27日~2025年07月07日 |
| 检测要求:     | 根据客户要求检测                |
| 检测方法:     | 见后续页。                   |
| 检测结果:     | 见后续页。                   |

| 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<br>价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯<br>(DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二<br>异丁酯 (DIBP) | 符合    |
| AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)  | 见检测结果 |
| 四溴双酚 A (TBBP-A)   | 见检测结果 |
| 中链氯化石蜡(C14-C17) (MCCPs)   | 见检测结果 |
| 苯并三唑类紫外吸收剂  | 见检测结果 |
| 氯化石蜡  | 见检测结果 |
| 甲醛  | 见检测结果 |

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Jany Zhong 钟臻 批准签署人





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|---|--|--------------|
|   | 检测要求   | 结论           |
|   | 六溴环十二烷(HBCDD)  | 见检测结果        |
|   | 有机锡化合物   | 见检测结果        |
|   | 邻苯二甲酸酯   | 见检测结果        |
|   | 聚氯乙烯 (PVC)   | 见检测结果        |
|   | 美国环保署有毒物质控制法 (TSCA) 第6(h)节规定的持久性、生物累积性和毒性 (PBT) 化学物质 | 符合           |
|   | 红磷   | 见检测结果        |
|   | 硫  | 见检测结果        |
|   | 多氯联苯(PCBs)   | 见检测结果        |
|   | 多氯萘(PCNs)  | 见检测结果        |
|   | 多氯三联苯(PCTs)  | 见检测结果        |
|   | 元素分析   | 见检测结果        |

#### 检测结果:

检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID               | 样品描述                         |
|------|------|-------------------------|------------------------------|
| SN1  | A1   | CAN25-0155358-0001.C001 | 黄色单面覆铜板(取用无红色"KB"印字部<br>分测试) |

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL= 方法检出限

- (3) ND = 未检出( < MDL)
- (4) "-" = 未规定

<u>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 (PBB)、多溴</u> <u>二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯</u> (<u>DBP)和邻苯二甲酸二异丁酯 (DIBP)</u>

**检测方法:** 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 和 IEC 62321-12:2023,采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目         | 限值   | 单位    | MDL | A1 |
|--------------|------|-------|-----|----|
| 铅 (Pb)       | 1000 | mg/kg | 2   | 4  |
| 汞 (Hg)       | 1000 | mg/kg | 2   | ND |
| 镉 (Cd)       | 100  | mg/kg | 2   | ND |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8   | ND |



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| 检测项目                   | 限值   | 单位    | MDL | A1 |
|------------------------|------|-------|-----|----|
| 多溴联苯之和 (PBB)           | 1000 | mg/kg | -   | ND |
| 一溴联苯 (MonoBB)          | -    | mg/kg | 25  | ND |
| 二溴联苯 (DiBB)            | -    | mg/kg | 25  | ND |
| 三溴联苯 (TriBB)           | -    | mg/kg | 25  | ND |
| 四溴联苯 (TetraBB)         | -    | mg/kg | 25  | ND |
| 五溴联苯 (PentaBB)         | -    | mg/kg | 25  | ND |
| 六溴联苯 (HexaBB)          | -    | mg/kg | 25  | ND |
| 七溴联苯 (HeptaBB)         | -    | mg/kg | 25  | ND |
| 八溴联苯 (OctaBB)          | -    | mg/kg | 25  | ND |
| 九溴联苯 (NonaBB)          | -    | mg/kg | 25  | ND |
| 十溴联苯 (DecaBB)          | -    | mg/kg | 25  | ND |
| 多溴二苯醚之和 (PBDE)         | 1000 | mg/kg | -   | ND |
| 一溴二苯醚 (MonoBDE)        | -    | mg/kg | 25  | ND |
| 二溴二苯醚 (DiBDE)          | -    | mg/kg | 25  | ND |
| 三溴二苯醚 (TriBDE)         | -    | mg/kg | 25  | ND |
| 四溴二苯醚 (TetraBDE)       | -    | mg/kg | 25  | ND |
| 五溴二苯醚 (PentaBDE)       | -    | mg/kg | 25  | ND |
| 六溴二苯醚 (HexaBDE)        | -    | mg/kg | 25  | ND |
| 七溴二苯醚 (HeptaBDE)       | -    | mg/kg | 25  | ND |
| 八溴二苯醚 (OctaBDE)        | -    | mg/kg | 25  | ND |
| 九溴二苯醚 (NonaBDE)        | -    | mg/kg | 25  | ND |
| 十溴二苯醚 (DecaBDE)        | -    | mg/kg | 25  | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸丁苄酯 (BBP)         | 1000 | mg/kg | 50  | ND |
| 邻苯二甲酸二丁酯 (DBP)         | 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。

#### AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

**检测方法:** 参考 AfPS GS 2019:01 PAK,采用 GC-MS 进行分析。

| 检测项目           | CAS No.  | 单位    | MDL | A1 |
|----------------|----------|-------|-----|----|
| 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 |
| 苯并(a)蒽 (BaA)   | 56-55-3  | mg/kg | 0.1 | ND |
| 苯并(b)荧蒽 (BbF)  | 205-99-2 | mg/kg | 0.1 | ND |
| 苯并(j)荧蒽 (BjF)  | 205-82-3 | mg/kg | 0.1 | ND |
| 苯并 (k)荧蒽 (BkF) | 207-08-9 | mg/kg | 0.1 | ND |



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| 检测项目   | CAS No.  | 单位    | MDL | A1 |
|--|----------|-------|-----|----|
| 䓛 (CHR)  | 218-01-9 | 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)苝(二萘嵌苯) (BPE)                           | 191-24-2 | mg/kg | 0.1 | ND |
| 茚苯(1,2,3-c,d)芘 (IPY)                             | 193-39-5 | mg/kg | 0.1 | ND |
| 菲 (PHE)  | 85-01-8  | mg/kg | 0.1 | ND |
| 芘 (PYR)  | 129-00-0 | mg/kg | 0.1 | ND |
| 茵 (ANT)  | 120-12-7 | mg/kg | 0.1 | ND |
| 荧蒽 (FLT)   | 206-44-0 | mg/kg | 0.1 | ND |
| 4 项多环芳香烃总和[菲 (PHE),芘 (PYR),<br>蒽 (ANT),荧蒽 (FLT)] | -        | mg/kg | -   | ND |
| 萘 (NAP)  | 91-20-3  | mg/kg | 0.1 | ND |
| 15 项多环芳香烃总和                                      | -        | mg/kg | -   | ND |
| 材料分类   | -        | -     | -   | -  |

#### 备注:

AfPS(德国产品安全委员会):认证对多环芳香烃的要求

| AIF 5(德国) 丽女主女贝?                        | 1 类   | <b>2</b> 2  | 类                      | 3                           | 类                      |
|---|---|---|------------------------|-----------------------------|------------------------|
| <b>参数</b><br>单位:mg/kg                   | 设计意图为放入口中<br>的材料,或与皮肤长<br>期接触(超过30<br>秒)的材料用于<br>-2009/48/EC 定义 | 不属于第1类,<br>可预见 <sup>d</sup> 与皮肋<br>(超过 30秒)<br>接触∘的材料 | 长长期接触                  | 不属于第1和<br>图或可预见与<br>(不超过30秒 | 皮肤短期接触                 |
|   | -2003,40,20 定文<br>的玩具,或<br>-供3岁以下儿童 <sup>a,b</sup><br>使用。       | <b>a</b> .供儿童<br>使用的产品                                | b.其他产品                 | <b>a</b> .供儿童<br>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                    |
| 䓛 (CHR) ,mg/kg                          | < 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)苝(二萘嵌<br>苯) (BPE)              | < 0.2   | < 0.2   | < 0.5                  | < 0.5                       | < 1                    |
| 茚苯(1,2,3-c,d)芘<br>(IPY)                 | < 0.2   | < 0.2   | < 0.5                  | < 0.5                       | < 1                    |
| 菲 (PHE),芘<br>(PYR),蒽 (ANT),荧<br>蒽 (FLT) | <b>&lt; 1</b><br>(总和)   | <b>&lt;5</b><br>(总和)                                  | <b>&lt; 10</b><br>(总和) | <b>&lt;20</b><br>(总和)       | <b>&lt; 50</b><br>(总和) |
| 萘 (NAP)                                 | < 1   | < )   | 2                      | < '                         | 10                     |
| 15 PAH 之和                               | <1  | < 5   | < 10                   | < 20                        | < 50                   |

注释:



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a儿童是指法定年龄未满14周岁的人。

<sup>b</sup>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)。

<sup>d</sup> 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。

#### 四溴双酚 A (TBBP-A)

检测方法: 参考 US EPA 3550C: 2007,采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

| 检测项目           | CAS No. | 单位    | MDL | A1 |
|----------------|---------|-------|-----|----|
| 四溴双酚 A(TBBP-A) | 79-94-7 | mg/kg | 5   | ND |

#### <u>中链氯化石蜡(C14-C17) (MCCPs)</u>

检测方法: 参考 ISO 22818:2021,采用 GC-NCI-MS 进行分析。

| 检测项目  | CAS No.            | 单位    | MDL | A1 |
|---|--------------------|-------|-----|----|
| 中链氯化石蜡(C <sub>14</sub> -C <sub>17</sub> ) (MCCPs) | 85535-85-9 和其<br>它 | mg/kg | 50  | ND |

#### 苯并三唑类紫外吸收剂

参考 SGS 内部方法,采用 GC-MS 进行分析。 检测方法:

| 检测项目  | CAS No.    | 单位    | MDL | A1 |
|---|------------|-------|-----|----|
| 2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV 320)                 | 3846-71-7  | mg/kg | 5   | ND |
| 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁<br>基)苯酚(UV 350) | 36437-37-3 | mg/kg | 5   | ND |
| 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚<br>(UV 328)        | 25973-55-1 | mg/kg | 5   | ND |
| 2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV 327)           | 3864-99-1  | mg/kg | 5   | ND |

#### 氯化石蜡

检测方法: 参考 ISO 22818:2021,采用 GC-NCI-MS 进行分析。

| 检测项目  | CAS No.    | 单位    | MDL | A1 |
|---|------------|-------|-----|----|
| 短链氯化石蜡(SCCP)(C <sub>10</sub> -C <sub>13</sub> ) | 85535-84-8 | mg/kg | 50  | ND |



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|   |   |  |



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甲醛

**检测方法:**参考 ISO 14184-1:2011,采用 UV-Vis 进行分析。

| 检测项目 | 单位    | MDL | A1 |
|------|-------|-----|----|
| 甲醛   | mg/kg | 16  | ND |

#### <u>六溴环十二烷(HBCDD)</u>

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

| 检测项目   | CAS No.  | 单位    | MDL | A1 |
|--|--|-------|-----|----|
| 六溴环十二烷(HBCDD)及其非对映异构<br>体(α-HBCDD, β-HBCDD, γ-HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg | 20  | ND |

#### 有机锡化合物

检测方法: 参考 ISO 17353:2004,采用 GC-MS 进行分析。

| 检测项目              | 单位    | MDL  | A1 |
|-------------------|-------|------|----|
| 二丁基锡(DBT)         | mg/kg | 0.02 | ND |
| 三丁基锡 (TBT)        | mg/kg | 0.02 | ND |
| 二辛基锡 (DOT)        | mg/kg | 0.02 | ND |
| 三苯基锡 (TPhT)       | mg/kg | 0.02 | ND |
| 三环己基锡 (TCyHT)     | mg/kg | 0.02 | ND |
| 三甲基锡(TMT)         | mg/kg | 0.02 | ND |
| 三辛基锡 (TOT)        | mg/kg | 0.02 | ND |
| 三丙基锡 <b>(TPT)</b> | mg/kg | 0.02 | ND |

#### 邻苯二甲酸酯

检测方法: 参考 IEC 62321-8:2017,采用 GC-MS 进行分析。

| 检测项目                  | CAS No.                   | 单位    | MDL | A1 |
|-----------------------|---------------------------|-------|-----|----|
| 邻苯二甲酸二丁酯 (DBP)        | 84-74-2                   | mg/kg | 50  | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 117-81-7                  | mg/kg | 50  | ND |
| 邻苯二甲酸丁苄酯(BBP)         | 85-68-7                   | mg/kg | 50  | ND |
| 邻苯二甲酸二异壬酯(DINP)       | 28553-12-0<br>/68515-48-0 | mg/kg | 50  | ND |
| 邻苯二甲酸二辛酯(DNOP)        | 117-84-0                  | mg/kg | 50  | ND |
| 邻苯二甲酸二异癸酯(DIDP)       | 26761-40-0<br>/68515-49-1 | mg/kg | 50  | ND |
| 邻苯二甲酸二异丁酯(DIBP)       | 84-69-5                   | mg/kg | 50  | ND |



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**日期: 2025 年 07 月 09** 日

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| 检测项目                            | CAS No.     | 单位    | MDL | A1 |
|---------------------------------|-------------|-------|-----|----|
| 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)          | 117-82-8    | mg/kg | 50  | ND |
| 邻苯二甲酸二正己酯(DnHP)                 | 84-75-3     | mg/kg | 50  | ND |
| 邻苯二甲酸二戊酯 (DPENP/ DnPP)          | 131-18-0    | mg/kg | 50  | ND |
| 邻苯二甲酸二苯酯(DPhP)                  | 84-62-8     | mg/kg | 50  | ND |
| 邻苯二甲酸双十一酯(DUDP)                 | 3648-20-2   | mg/kg | 50  | ND |
| 邻苯二甲酸二甲酯(DMP)                   | 131-11-3    | mg/kg | 50  | ND |
| 邻苯二甲酸二乙酯(DEP)                   | 84-66-2     | mg/kg | 50  | ND |
| 邻苯二甲酸二丙酯(DPrP)                  | 131-16-8    | mg/kg | 50  | ND |
| 邻苯二甲酸二环己酯(DCHP)                 | 84-61-7     | mg/kg | 50  | ND |
| 邻苯二甲酸二苯甲酯(DBzP)                 | 523-31-9    | mg/kg | 50  | ND |
| 邻苯二甲酸二壬酯(DNP)                   | 84-76-4     | mg/kg | 50  | ND |
| 邻苯二甲酸二异辛酯(DIOP)                 | 27554-26-3  | mg/kg | 50  | ND |
| 邻苯二甲酸二丙烯酯(DAP)                  | 131-17-9    | mg/kg | 50  | ND |
| 1,2-苯二甲酸癸基辛基酯(nDnOP)            | 119-07-3    | mg/kg | 50  | ND |
| 邻苯二甲酸二癸酯(DnDP)                  | 84-77-5     | mg/kg | 50  | ND |
| 邻苯二甲酸二异戊酯(DiPP)                 | 605-50-5    | mg/kg | 50  | ND |
| 邻苯二甲酸正戊基异戊基酯(nPiPP)             | 776297-69-9 | mg/kg | 50  | ND |
| 邻苯二甲酸二(2-丁氧基)乙酯<br>(DBEP)       | 117-83-9    | mg/kg | 50  | ND |
| 邻苯二甲酸二(4-甲基-2-戊基)酯<br>(BMPP)    | 146-50-9    | mg/kg | 50  | ND |
| 邻苯二甲酸二(2-乙氧基)乙酯(DEEP)           | 605-54-9    | mg/kg | 50  | ND |
| 邻苯二甲酸二 C6-C8 支链烷基酯(DIHP)        | 71888-89-6  | mg/kg | 50  | ND |
| 邻苯二甲酸二正庚酯(DnHpP)                | 3648-21-3   | mg/kg | 50  | ND |
| 邻苯二酸-二(C7,C9,C11)烷基酯<br>(DHNUP) | 68515-42-4  | mg/kg | 50  | ND |
| 邻苯二甲酸二(支链与直链)戊基酯 (DPP)          | 84777-06-0  | mg/kg | 50  | ND |
| 邻苯二甲酸双十三烷基酯(DTDP)               | 119-06-2    | mg/kg | 50  | ND |
| 邻苯二甲酸二(支链与直链)己基酯<br>(DHxP)      | 68515-50-4  | mg/kg | 50  | ND |
| 己二酸二(2-乙基己基)酯(DEHA)             | 103-23-1    | mg/kg | 50  | ND |
| 对苯二甲酸二(2-乙基己)酯(DOTP)            | 6422-86-2   | mg/kg | 50  | ND |
| 已二酸二异壬酯(DINA)                   | 33703-08-1  | mg/kg | 50  | ND |
| 邻苯二甲酸二(2-丙基庚)酯(DPHpP)           | 53306-54-0  | mg/kg | 50  | ND |
| 乙酰柠檬酸三丁酯(ATBC)                  | 77-90-7     | mg/kg | 50  | ND |
| 偏苯三酸三(2-乙基己)酯 (TOTM)            | 3319-31-1   | mg/kg | 50  | ND |

### <u> 聚氯乙烯 (PVC)</u>

**检测方法:** SGS 内部方法 (SGS-CCL-TOP-066-01), 采用 FTIR/HATR 进行分析。

| 检测项目       | A1 |
|------------|----|
| 聚氯乙烯 (PVC) | 阴性 |



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# 检测报告 编号: CANEC25015535802

**日期:** 2025年07月09日 第8页,共23页

备注:

(1) 阴性=未检测到, 阳性= 已检测到。

#### 美国环保署有毒物质控制法 (TSCA) 第 6 (h)节规定的持久性、生物累积性和毒性 (PBT) 化学物质

**检测方法:** SGS 内部方法(SGS-CCL-TOP-149-07,参考 US EPA 方法 3550C:2007),采用 GC-MS 进行 分析。

| 检测项目                      | CAS No.    | 限值    | 单位    | MDL | A1 |
|---------------------------|------------|-------|-------|-----|----|
| 十溴二苯醚 (Deca-BDE)          | 1163-19-5  | 1000  | mg/kg | 5   | ND |
| 异丙基化磷酸三苯酯 (PIP 3:1)       | 68937-41-7 | 1000  | mg/kg | 5   | ND |
| 2,4,6-三叔丁基苯酚 (2,4,6-TTBP) | 732-26-3   | 3000  | mg/kg | 5   | ND |
| 六氯丁二烯 (HCBD)              | 87-68-3    | 禁用    | mg/kg | 5   | ND |
| 五氯苯硫酚 (PCTP)              | 133-49-3   | 10000 | mg/kg | 5   | ND |
| 结论                        |            |       |       |     | 符合 |

#### 备注:

(1) 法规信息请参见下链接

https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under.

(2) 针对十溴二苯醚 (Deca-BDE)和异丙基化磷酸三苯酯 (PIP 3:1) 的规定于 2025 年 1 月 21 日生效。

#### 红磷

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

| 检测项目 | CAS No.   | 单位    | MDL | A1 |
|------|-----------|-------|-----|----|
| 红磷   | 7723-14-0 | mg/kg | 500 | ND |

#### <u>硫</u>

**检测方法:**参考 EN 14582:2016,采用 IC 进行分析。

| 检测项目         | 单位    | MDL | A1 |
|--------------|-------|-----|----|
| 硫 <b>(S)</b> | mg/kg | 50  | ND |

#### <u> 多氯联苯(PCBs)</u>

**检测方法:** SGS 内部方法(GZTC CHEM-TOP-032-01,参考 EPA 8082A:2007),采用 GC-ECD/GC-MS 进行分析。

| 检测项目                     | CAS No.    | 单位    | MDL | A1 |
|--------------------------|------------|-------|-----|----|
| 2,4,4'-三氯联苯(PCB28)       | 7012-37-5  | mg/kg | 0.5 | ND |
| 2,2',5,5'-四氯联苯(PCB52)    | 35693-99-3 | mg/kg | 0.5 | ND |
| 2,2',4,5,5'-五氯联苯(PCB101) | 37680-73-2 | mg/kg | 0.5 | ND |
| 2,3',4,4',5-五氯联苯(PCB118) | 31508-00-6 | mg/kg | 0.5 | ND |



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| 检测项目                          | CAS No.    | 单位    | MDL | A1 |
|-------------------------------|------------|-------|-----|----|
| 2,2',3,4,4',5'-六氯联苯(PCB138)   | 35065-28-2 | mg/kg | 0.5 | ND |
| 2,2',4,4',5,5'-六氯联苯(PCB153)   | 35065-27-1 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5,5'-七氯联苯(PCB180) | 35065-29-3 | mg/kg | 0.5 | ND |

#### <u>多氯萘(PCNs)</u>

**检测方法:** SGS 内部方法(GZTC CHEM-TOP-032-01,参考 EPA 8082A:2007),采用 GC-ECD/GC-MS 进行分析。

| 检测项目          | CAS No.    | 单位    | MDL | A1 |
|---------------|------------|-------|-----|----|
| 1-一氯萘         | 90-13-1    | mg/kg | 5   | ND |
| 2-一氯萘         | 91-58-7    | mg/kg | 5   | ND |
| 1,4-二氯萘       | 1825-31-6  | mg/kg | 5   | ND |
| 1,5-二氯萘       | 1825-30-5  | mg/kg | 5   | ND |
| 1,2-二氯萘       | 2050-69-3  | mg/kg | 5   | ND |
| 1,8-二氯萘       | 2050-74-0  | mg/kg | 5   | ND |
| 1,2,3-三氯萘     | 50402-52-3 | mg/kg | 5   | ND |
| 1,2,3,4-四氯萘   | 20020-02-4 | mg/kg | 5   | ND |
| 1,2,3,4,6-五氯萘 | 67922-26-3 | mg/kg | 5   | ND |
| 八氯萘           | 2234-13-1  | mg/kg | 5   | ND |

#### <u>多氯三联苯(PCTs)</u>

**检测方法:** SGS 内部方法(GZTC CHEM-TOP-032-01,参考 EPA 8082A:2007),采用 GC-ECD/GC-MS 进行分析。

| 检测项目       | CAS No.    | 单位    | MDL | A1 |
|------------|------------|-------|-----|----|
| 多氯三联苯 5432 | 63496-31-1 | mg/kg | 5   | ND |
| 多氯三联苯 5442 | 12642-23-8 | mg/kg | 5   | ND |
| 多氯三联苯 5460 | 11126-42-4 | mg/kg | 5   | ND |

#### <u>元素分析</u>

检测方法: 参考 US EPA 3052: 1996,采用 ICP-OES 进行分析。

| 检测项目  | 单位    | MDL | A1 |
|-------|-------|-----|----|
| 砷(As) | mg/kg | 10  | ND |
| 镍(Ni) | mg/kg | 5   | ND |
| 铍(Be) | mg/kg | 5   | ND |

除非另有说明,参照 ILAC-G8:09/2019,使用简单接受(w=0)的二元判定规则进行符合性判定。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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### 检测报告 <sup>附件</sup>

编号: CANEC25015535802

#### 元素检测流程图

样品按照下述流程被完全消解





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附件

#### 六价铬检测流程图





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#### PBB/PBDE/Phthalates 检测流程图





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### PAHs 检测流程图





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TBBP-A 检测流程图





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### 氯化石蜡检测流程图





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HBCDD 检测流程图





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#### 有机锡检测流程图





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#### Phthalates 检测流程图





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#### PVC 检测流程图





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持久性、生物累积性和毒性(PBT)化学物质检测流程图





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红磷检测流程图





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### 元素检测流程图





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