

## 检测报告

编号: SHAEC23018485802

日期: 2023 年 11 月 14 日

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客户名称: 江苏广信感光新材料股份有限公司  
客户地址: 江阴市青阳镇工业集中区华澄路 18 号

样品名称: 热固化标记油墨  
型号: KSM-388W-HF  
料号: KSM-28-HF  
客户参考信息: 以 150°C 烘烤; 2 小时固化  
制造商: 江苏广信感光新材料股份有限公司  
以上样品及信息由客户提供。

SGS 工作编号: TIC1020231106161208I7L1  
样品接收时间: 2023 年 11 月 08 日  
检测周期: 2023 年 11 月 08 日 ~ 2023 年 11 月 14 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) | 符合    |
| 卤素   | 见检测结果 |
| 六溴环十二烷 (HBCDD)   | 见检测结果 |
| 全氟辛烷磺酸(PFOS)及衍生物和全氟辛酸(PFOA)及其盐   | 见检测结果 |
| 邻苯二甲酸盐(或酯)   | 见检测结果 |

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盛雯舒

Sue Sheng 盛雯舒  
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## 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   | SHA23-0184858-0001.C001 | 白色固体 |

## 备注:

- (1) 1 mg/kg = 1 ppm = 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 62321-4:2013+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 | A1 |
|-----------------|------|-------|-----|----|
| 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(MonoBB)    | -    | mg/kg | 5   | ND |
| 二溴联苯(DiBB)      | -    | mg/kg | 5   | ND |
| 三溴联苯(TriBB)     | -    | mg/kg | 5   | ND |
| 四溴联苯(TetraBB)   | -    | mg/kg | 5   | ND |
| 五溴联苯(PentaBB)   | -    | mg/kg | 5   | ND |
| 六溴联苯(HexaBB)    | -    | mg/kg | 5   | ND |
| 七溴联苯(HeptaBB)   | -    | mg/kg | 5   | ND |
| 八溴联苯(OctaBB)    | -    | mg/kg | 5   | ND |
| 九溴联苯(NonaBB)    | -    | mg/kg | 5   | ND |
| 十溴联苯(DecaBB)    | -    | mg/kg | 5   | ND |
| 多溴二苯醚之和(PBDEs)  | 1000 | mg/kg | -   | ND |
| 一溴二苯醚(MonoBDE)  | -    | mg/kg | 5   | ND |
| 二溴二苯醚(DiBDE)    | -    | mg/kg | 5   | ND |
| 三溴二苯醚(TriBDE)   | -    | mg/kg | 5   | ND |
| 四溴二苯醚(TetraBDE) | -    | mg/kg | 5   | ND |
| 五溴二苯醚(PentaBDE) | -    | mg/kg | 5   | ND |
| 六溴二苯醚(HexaBDE)  | -    | mg/kg | 5   | ND |
| 七溴二苯醚(HeptaBDE) | -    | mg/kg | 5   | ND |
| 八溴二苯醚(OctaBDE)  | -    | mg/kg | 5   | ND |



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| 检测项目                   | 限值   | 单位    | MDL | A1 |
|------------------------|------|-------|-----|----|
| 九溴二苯醚(NonaBDE)         | -    | mg/kg | 5   | ND |
| 十溴二苯醚(DecaBDE)         | -    | 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: 参考 EN 14582:2016, 采用 IC 进行分析。

| 检测项目   | 单位    | MDL | A1  |
|--------|-------|-----|-----|
| 氟 (F)  | mg/kg | 20  | ND  |
| 氯 (Cl) | mg/kg | 50  | 573 |
| 溴 (Br) | mg/kg | 50  | ND  |
| 碘 (I)  | mg/kg | 50  | ND  |

## 六溴环十二烷 (HBCDD)

检测方法: 参考 US EPA 3550C:2007, 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) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg | 10  | 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, 采用 HPLC-MS 或 LC-MS/MS 进行分析。

| 检测项目                         | CAS No.    | 单位    | MDL   | A1 |
|------------------------------|------------|-------|-------|----|
| 全氟辛烷磺酸(PFOS)及其衍生物            | -          | mg/kg | -     | ND |
| 全氟辛烷磺酸 (PFOS)及其盐*            | 1763-23-1  | mg/kg | 0.010 | ND |
| N-乙基全氟辛烷磺酰胺 (N-EtFOSA)       | 4151-50-2  | mg/kg | 0.010 | ND |
| N-甲基全氟辛烷磺酰胺 (N-MeFOSA)       | 31506-32-8 | mg/kg | 0.010 | ND |
| 2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE) | 1691-99-2  | mg/kg | 0.010 | ND |



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| 检测项目                         | CAS No.    | 单位    | MDL   | A1 |
|------------------------------|------------|-------|-------|----|
| 2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |
| 全氟辛基磺酰胺 (PFOSA)              | 754-91-6   | mg/kg | 0.010 | ND |
| 全氟辛酸 (PFOA)及其盐*              | 335-67-1   | mg/kg | 0.010 | ND |

## 备注:

- (1) 全氟辛酸 (PFOA)及其盐\*包括 PFOA (CAS No. 335-67-1)、APFO (CAS No. 3825-26-1)、PFOA-Na (CAS No. 335-95-5)、PFOA-K (CAS No. 2395-00-8)、PFOA-Ag (CAS No. 335-93-3) 和 PFOA-F (CAS No. 335-66-0)。全氟辛酸 (PFOA)的结果用于表示全氟辛酸 (PFOA)及其盐。
- (2) 全氟辛烷磺酸 (PFOS)及其盐\*包括全氟辛烷磺酸 (CAS No.1763-23-1)、POSF (CAS No. 307-35-7)、PFOS-K (CAS No. 2795-39-3)、PFOS-NH<sub>4</sub> (CAS No. 29081-56-9)、PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No. 251099-16-8)、PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> (CAS No. 70225-14-8)、PFOS-Li (CAS No. 29457-72-5)、PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No. 56773-42-3) 和 PFOS-Na (CAS No. 4021-47-0)。全氟辛烷磺酸的结果用于表示全氟辛烷磺酸及其盐。

## 邻苯二甲酸盐(或酯)

检测方法: 参考 EN 14372:2004, 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                   | %  | 0.003 | ND |
| 邻苯二甲酸丁苄酯(BBP)          | 85-68-7                   | %  | 0.003 | ND |
| 邻苯二甲酸二(2-乙基己基) (DEHP)  | 117-81-7                  | %  | 0.003 | ND |
| 邻苯二甲酸二异壬酯 (DINP)       | 28553-12-0<br>/68515-48-0 | %  | 0.010 | 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<br>/68515-49-1 | %  | 0.010 | ND |
| 邻苯二甲酸二甲酯(DMP)          | 131-11-3                  | %  | 0.003 | ND |
| 邻苯二甲酸二乙酯(DEP)          | 84-66-2                   | %  | 0.003 | ND |
| 邻苯二甲酸二异丁酯(DIBP)        | 84-69-5                   | %  | 0.003 | ND |
| 邻苯二甲酸二戊酯(DnPP)         | 131-18-0                  | %  | 0.003 | ND |
| 邻苯二甲酸二环己酯(DCHP)        | 84-61-7                   | %  | 0.003 | ND |
| 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP) | 117-82-8                  | %  | 0.003 | ND |
| 邻苯二甲酸二苯酯(DPhP)         | 84-62-8                   | %  | 0.003 | ND |
| 邻苯二甲酸二苄酯(DBzP)         | 523-31-9                  | %  | 0.003 | ND |
| 邻苯二甲酸二异辛酯(DiOP)        | 27554-26-3                | %  | 0.010 | ND |
| 邻苯二甲酸二丙酯(DPrP)         | 131-16-8                  | %  | 0.003 | ND |
| 邻苯二甲酸二壬酯(DNP)          | 84-76-4                   | %  | 0.003 | ND |
| 邻苯二甲酸二正己酯(DnHP)        | 84-75-3                   | %  | 0.003 | ND |

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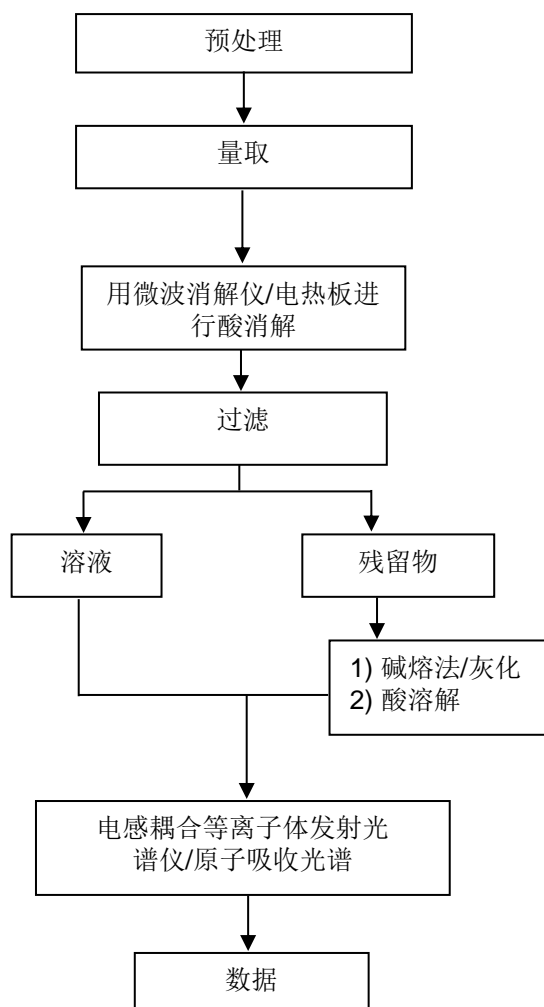
日期: 2023 年 11 月 14 日

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附件

## 元素检测流程图

样品按照下述流程被完全消解



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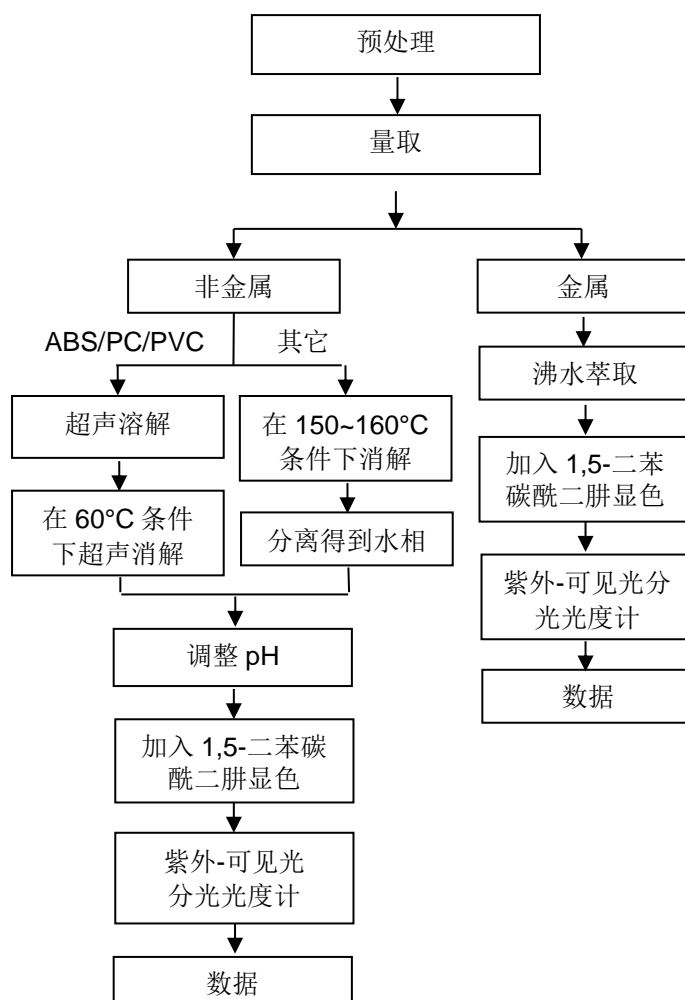
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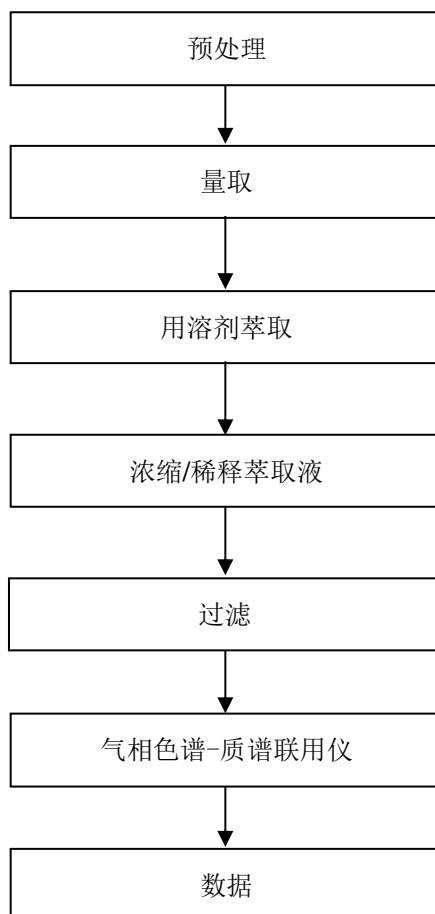
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## 六价铬检测流程图



## PBBs/PBDEs 检测流程图



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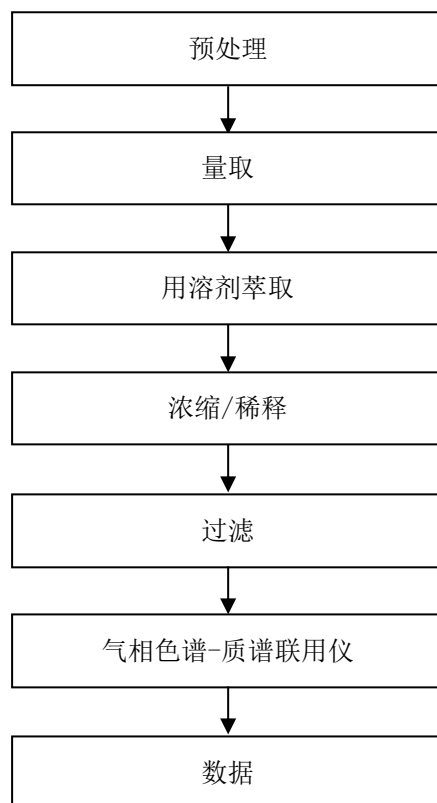
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## Phthalates 检测流程图



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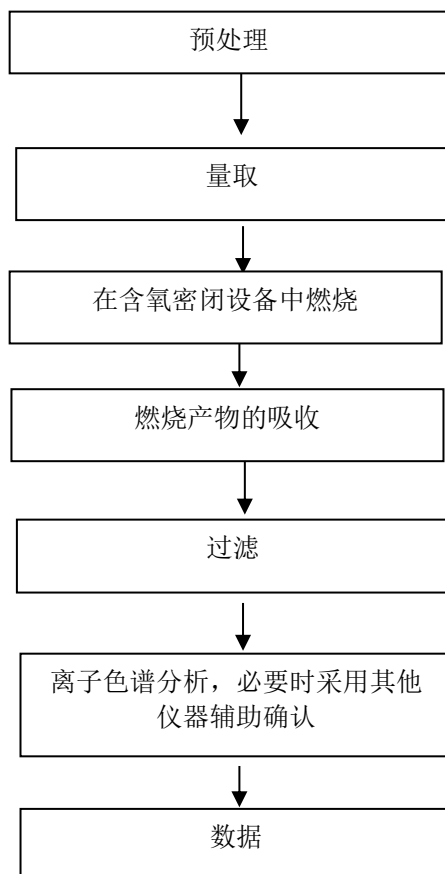
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## 卤素检测流程图



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## 检测报告

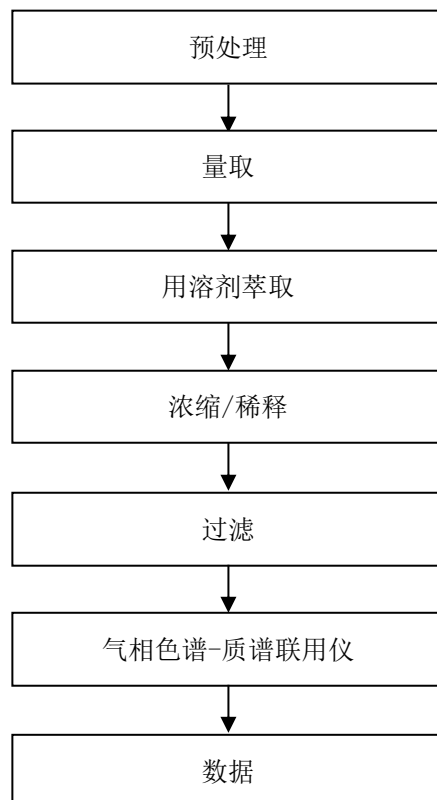
附件

编号: SHAEC23018485802

日期: 2023 年 11 月 14 日

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## HBCDD 检测流程图



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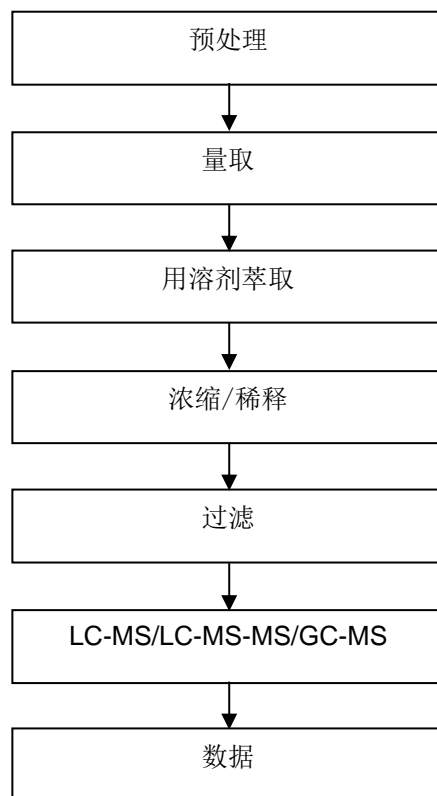
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## PFASs/ PFOS/PFOA 检测流程图



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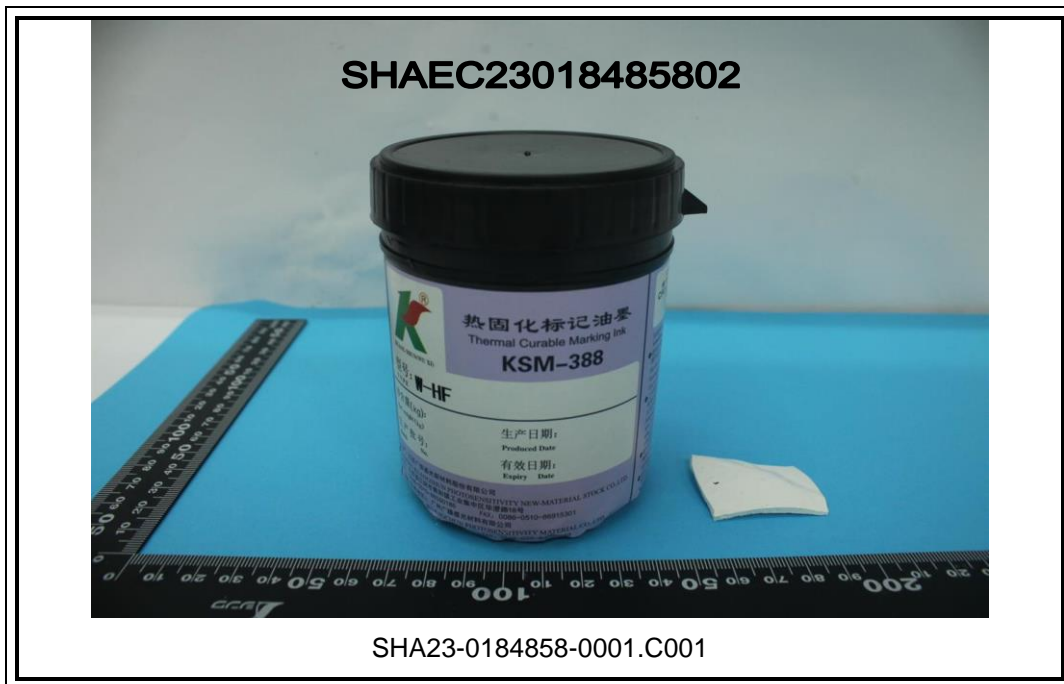
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日期: 2023 年 11 月 14 日

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