

测试报告

No. SHAHG2003226302

日期: 2020年03月19日 第1页,共16页

常州华威电子有限公司
江苏省常州市钟楼区邹区镇施桥300号

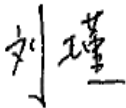
以下测试之样品是由申请者所提供及确认: 铝电解电容器 (引线式)

SGS工作编号: SHHL2003001954OT - SH
 样品接收日期: 2020年03月16日
 测试周期: 2020年03月16日 - 2020年03月18日
 测试要求: 根据客户要求测试
 测试方法: 请参见下一页
 测试结果: 请参见下一页

测试结果概要:

| 测试要求 | 结论 |
|--|----|
| RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863 | 符合 |
| RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863 | 符合 |

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Lucia Liu 刘瑾
批准签署人

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SHAHG2003226302



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测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|-----------|
| SN1 | SHA20-032263.001 | 黑色塑料带 |
| SN2 | SHA20-032263.002 | 黑色塑料带 |
| SN3 | SHA20-032263.003 | 白色油墨 |
| SN4 | SHA20-032263.004 | 透明软塑料黏性胶带 |
| SN5 | SHA20-032263.005 | 米色纸 |
| SN6 | SHA20-032263.006 | 透明液体 |
| SN7 | SHA20-032263.007 | 银色金属薄片 |
| SN8 | SHA20-032263.008 | 银色金属薄片 |
| SN9 | SHA20-032263.009 | 银色金属壳 |
| SN10 | SHA20-032263.010 | 银色金属引线 |
| SN11 | SHA20-032263.011 | 黑色软塑料部件 |

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

测试方法: 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。

| 测试项目 | 限值 | 单位 | MDL | 001 | 002 | 003 |
|--------------|------|-------|-----|-----|-----|-----|
| 镉(Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| 汞(Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8 | | ND | |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8 | ND | | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 二溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 三溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 四溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 五溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 六溴联苯 | - | mg/kg | 5 | ND | ND | ND |



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日期: 2020年03月19日

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| 测试项目 | 限值 | 单位 | MDL | 001 | 002 | 003 |
|-----------------------|------|-------|-----|-----|-----|-----|
| 七溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 八溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 九溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 十溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 三溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 五溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 十溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸丁苯酯(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二异丁酯(DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| 测试项目 | 限值 | 单位 | MDL | 004 | 005 | 006 |
|----------------|------|-------|-----|-----|-----|-----|
| 镉(Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | ND | ND | ND |
| 汞(Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8 | ND | ND | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 二溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 三溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 四溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 五溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 六溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 七溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 八溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 九溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 十溴联苯 | - | mg/kg | 5 | ND | ND | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND | ND | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |



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测试报告

No. SHAHG2003226302

日期: 2020年03月19日 第4页,共16页

| 测试项目 | 限值 | 单位 | MDL | 004 | 005 | 006 |
|-----------------------|------|-------|-----|-----|-----|-----|
| 三溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 五溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 十溴二苯醚 | - | mg/kg | 5 | ND | ND | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸丁苄酯(BBP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 1000 | mg/kg | 50 | ND | ND | ND |
| 邻苯二甲酸二异丁酯(DIBP) | 1000 | mg/kg | 50 | ND | ND | ND |

| 测试项目 | 限值 | 单位 | MDL | 011 |
|----------------|------|-------|-----|-----|
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | 8 |
| 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 |
| 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 |



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日期: 2020年03月19日 第5页,共16页

| 测试项目 | 限值 | 单位 | MDL | 011 |
|-----------------------|------|-------|-----|-----|
| 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。

(3) DEHP, BBP, DBP 和 DIBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP, BBP, DBP 和 DIBP含量进行了限制。

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

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013和IEC 62321-7-1:2015, 采用ICP-OES和UV-Vis进行分析。

| 测试项目 | 限值 | 单位 | MDL | 007 | 008 | 009 |
|--------------|------|--------------------|------|-----|-----|-----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | ND | 24 | 9 |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND | ND | ND |
| 六价铬(Cr(VI))▼ | - | µg/cm ² | 0.10 | ND | ND | ND |

| 测试项目 | 限值 | 单位 | MDL | 010 |
|--------------|------|--------------------|------|-----|
| 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))▼ | - | µg/cm ² | 0.10 | 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



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- (2) ▼ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND(低于 $0.10 \mu\text{g}/\text{cm}^2$)时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。除非另有说明, 此报告结果仅对测试的样品负责。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。

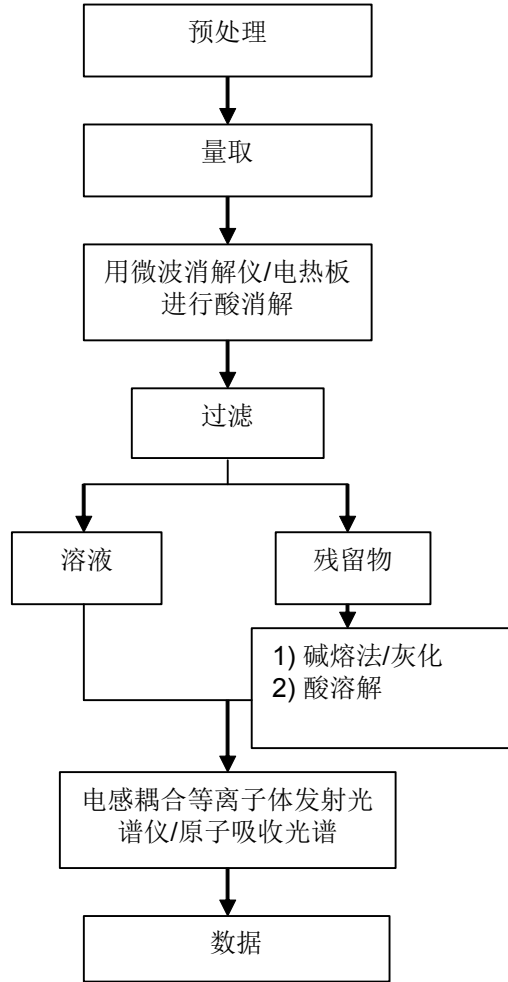


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元素(IEC62321) 测试流程图

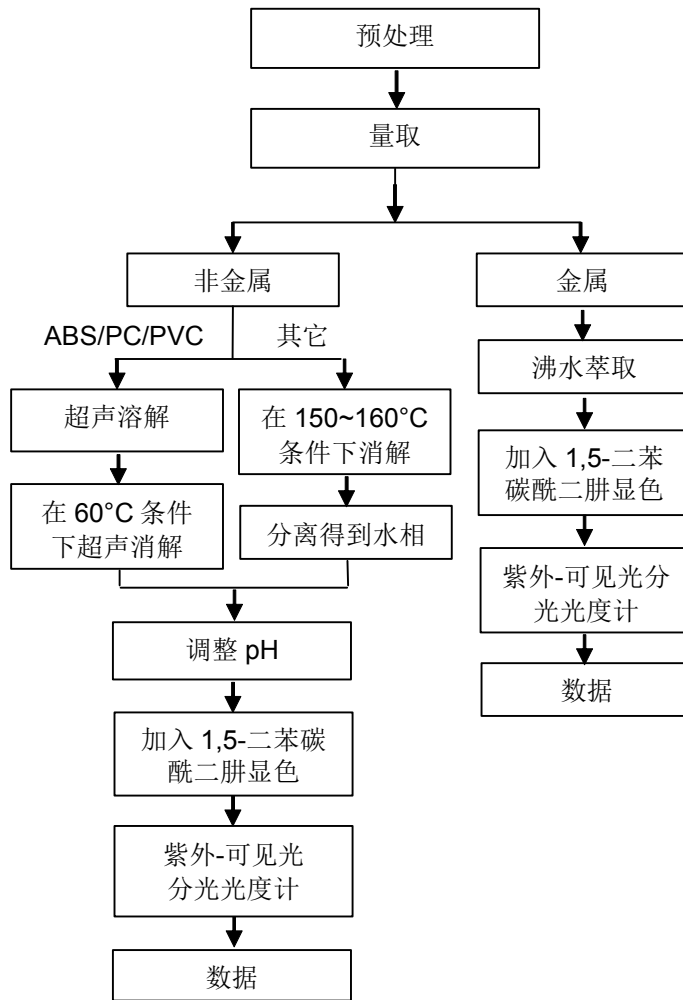
1)样品按照下述流程被完全消解



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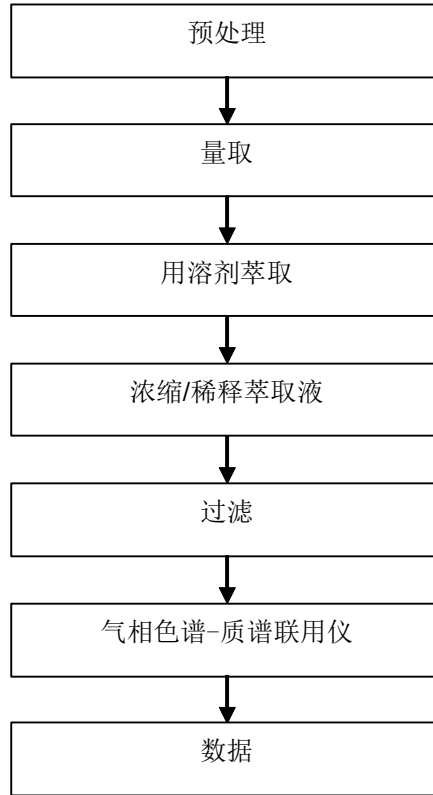
六价铬测试流程图



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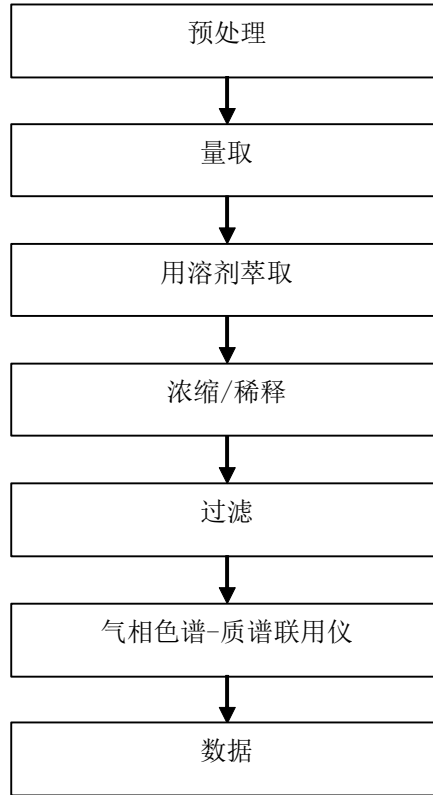
PBBs/PBDEs 测试流程图



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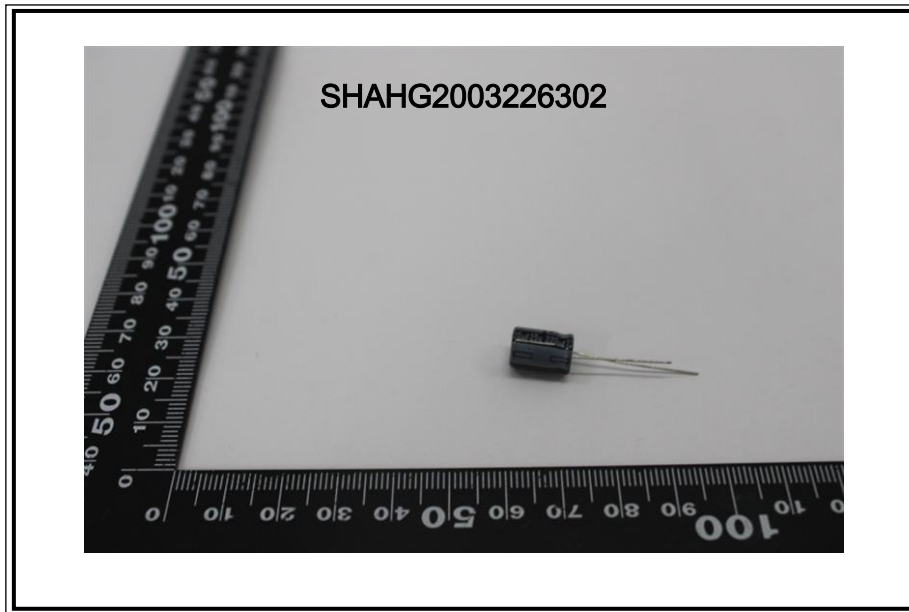
Phthalates 测试流程图



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样品照片:



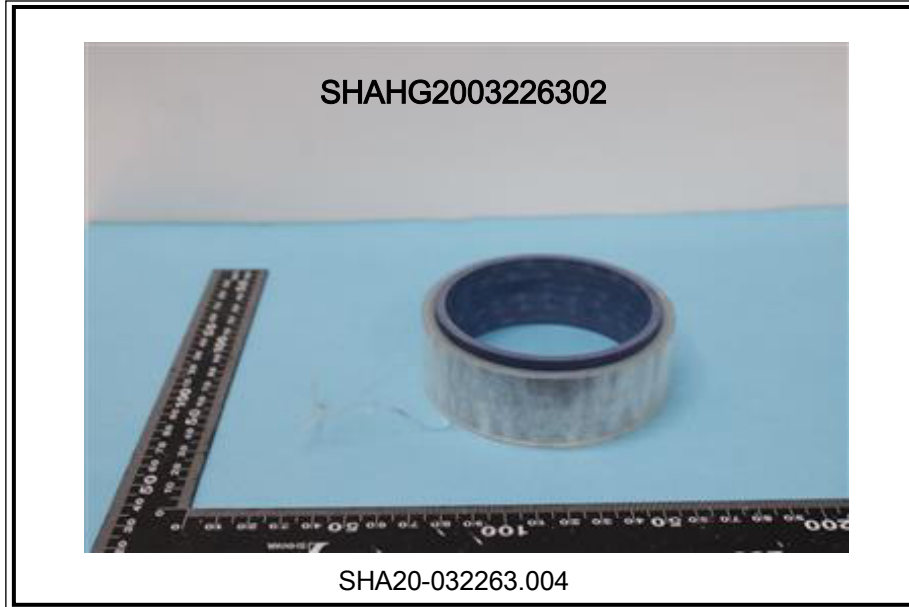
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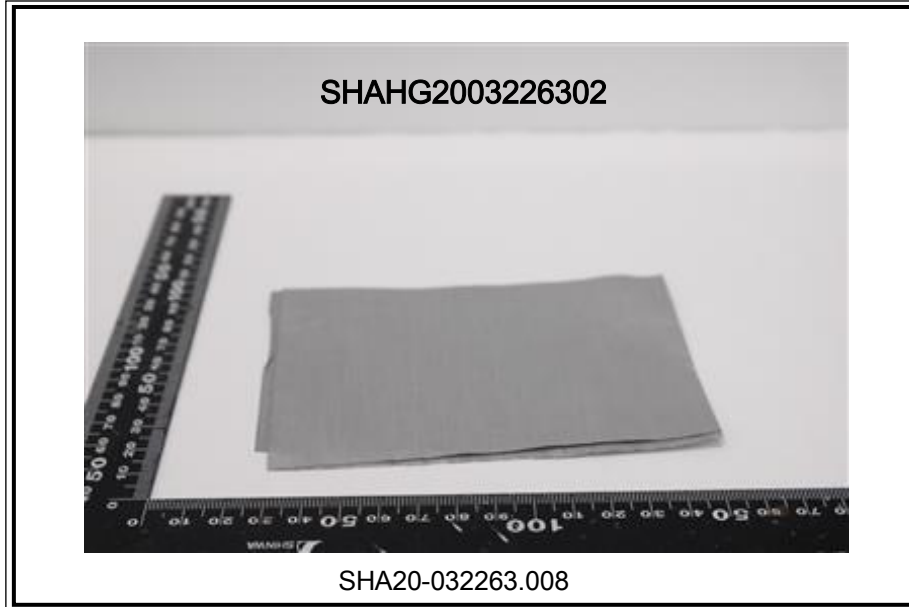
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