

检测报告

编号: SHAEC24029041402

日期: 2024年12月24日

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客户名称: 上海永铭电子股份有限公司

客户地址: 上海市奉贤区南桥镇杨王工业园光村路258号

样品名称: 铝电解电容器

型号: CW3H

客户参考信息: CW3S, SH15, CW3, CW6, CN6, CN3, SW3, SW6, SN3, SN6, SN10, SW10, CW6H, ID C3, ES3, ES6, EW3, EW6, EH3, EH6, ES3M, ES10, EW10

以上样品及信息由客户提供。

SGS 工作编号: SHP24-041149

样品接收时间: 2024年12月18日

检测周期: 2024年12月18日 ~ 2024年12月24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 (PBB)、多溴二苯醚 (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 (DBP) 和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务（上海）有限公司

授权签名

Carol Luo 罗萍

批准签署人

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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	SHA24-0290414-0001.C001	黑色固体带白色印刷
SN2	A2	SHA24-0290414-0001.C002	灰色固体
SN3	A3	SHA24-0290414-0001.C003	银灰色固体
SN4	A4	SHA24-0290414-0001.C004	淡棕色纸
SN5	A5	SHA24-0290414-0001.C005	深棕色液体
SN6	A6	SHA24-0290414-0001.C006	银色金属
SN7	A7	SHA24-0290414-0001.C007	银色金属
SN8	A8	SHA24-0290414-0001.C008	棕色/黑色固体
SN9	A9	SHA24-0290414-0001.C009	黑色固体
SN10	A10	SHA24-0290414-0001.C010	无色透明胶带

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

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 (DBP) 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 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	A2	A3
铅 (Pb)	1000	mg/kg	2	ND	ND	5
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND	ND	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND	ND	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND	ND	ND



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检测项目	限值	单位	MDL	A1	A2	A3
五溴联苯 (PentaBB)	-	mg/kg	25	ND	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND	ND	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND	ND	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND	ND	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A4	A5	A8
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND	ND	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND	ND	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND	ND	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND	ND	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND	ND	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND	ND	ND

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五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A9	A10
铅 (Pb)	1000	mg/kg	2	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND



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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。

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 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	A6	A7
铅 (Pb)	1000	mg/kg	2	ND	11
汞 (Hg)	1000	mg/kg	2	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND
六价铬 (Cr(VI))▼	-	µg/cm²	0.10	ND	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	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。



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- (3) ▼ = 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, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

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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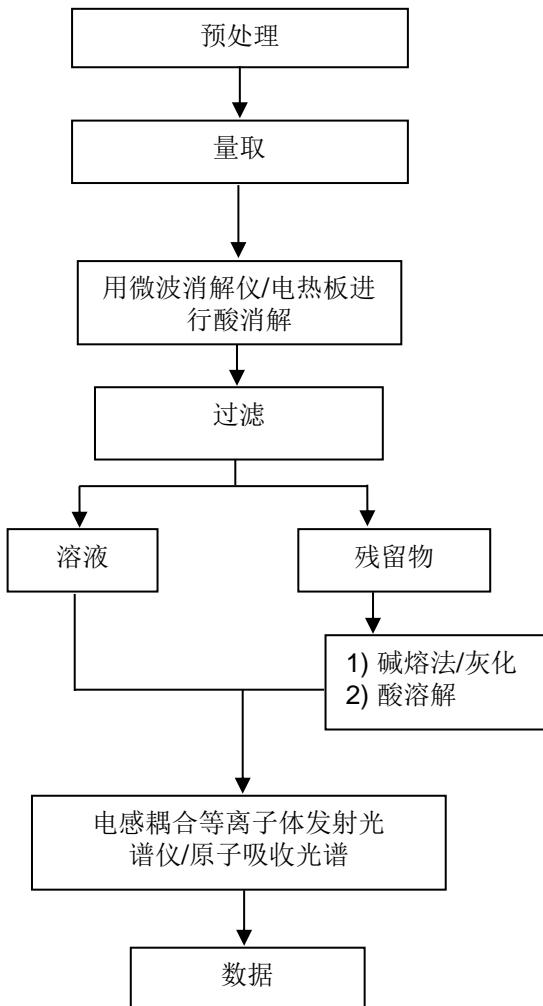
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附件

元素检测流程图

样品按照下述流程被完全消解



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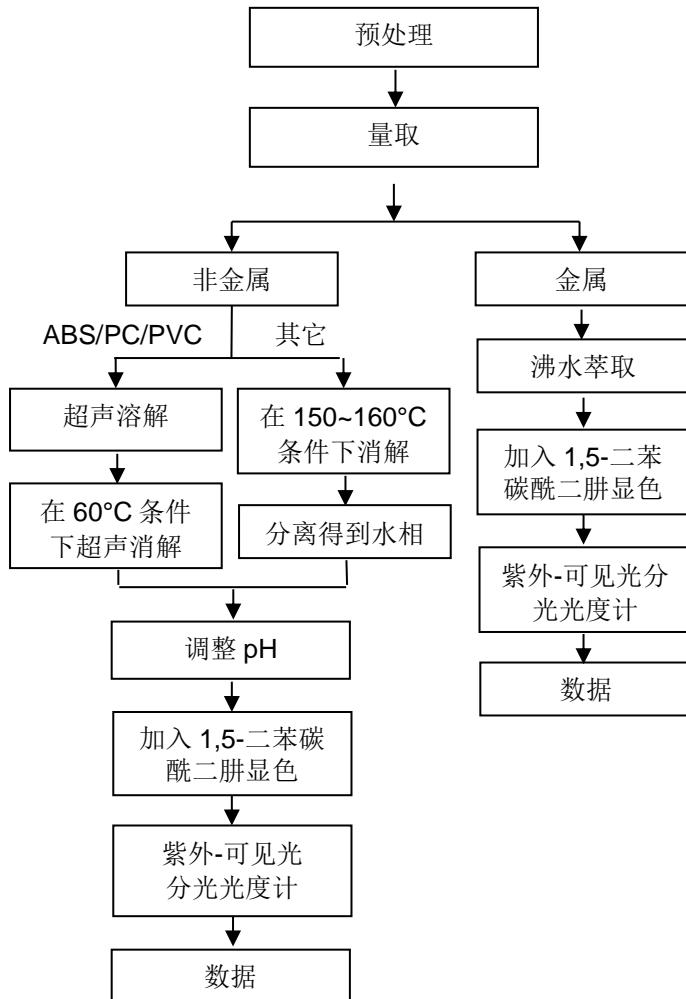
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附件

六价铬检测流程图



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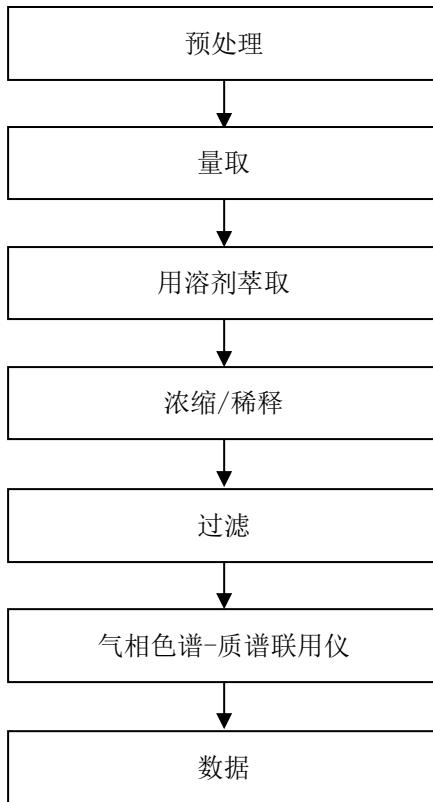
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PBB/PBDE/Phthalates 检测流程图



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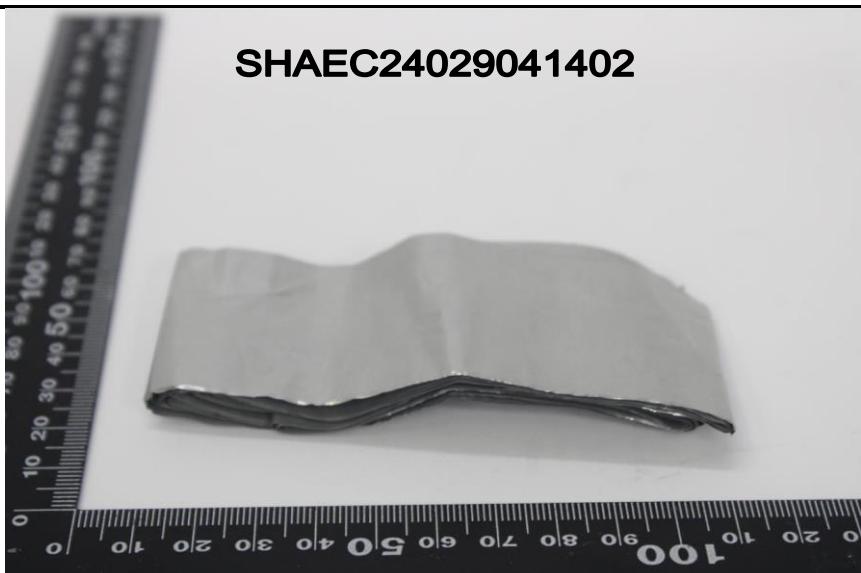
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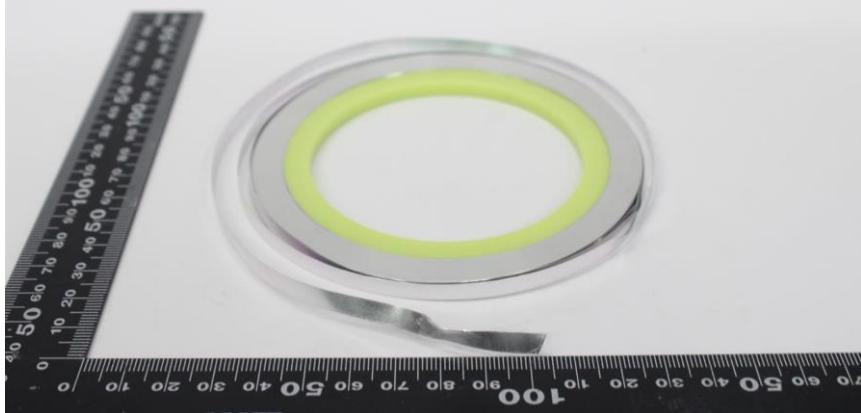
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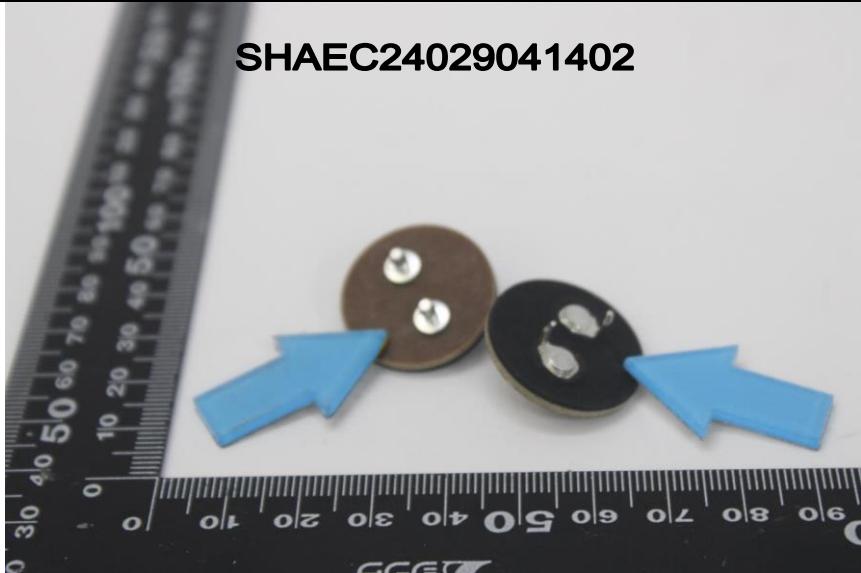
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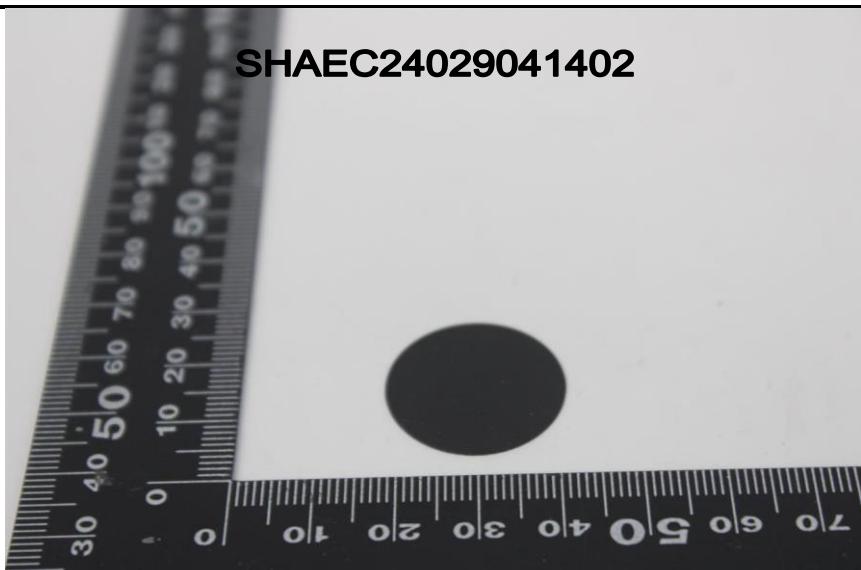
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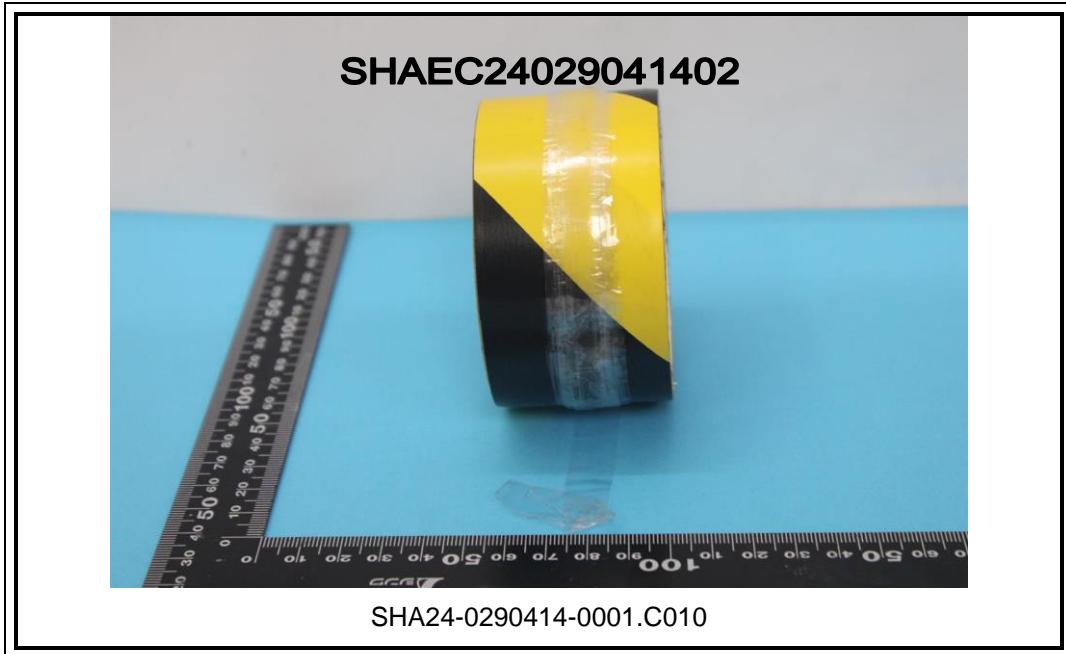
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