

Test Report
检测报告

No.: CKGEC25001732601

Date: Dec 31, 2025

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日期: 2025年12月31日 页码 1 of 13

Client Name: SHENZHEN ESUN INDUSTRIAL CO.,LTD
客户名称: 深圳光华伟业股份有限公司

Client Address: 15A, MICROSOFT KETONG BUILDING, NO. 55 GAOXINNAN 9TH ROAD, HIGH TECH COMMUNITY, YUEHAI STREET, NANSHAN DISTRICT, SHENZHEN
客户地址: 深圳市南山区粤海街道高新区社区高新南九道 55 号微软科通大厦 15A

Sample Name: PETG-UV Color change
PLA-Coffee
样品名称: PETG 光变
PLA 咖啡

The above sample(s) and information were provided by the client.
以上样品及信息由客户提供。

SGS Job No.: CQP25-015486
SGS 工作编号: CQP25-015486

Sample Receiving Date: Dec 23, 2025
样品接收时间: 2025年12月23日

Testing Period: Dec 23, 2025 ~ Dec 30, 2025
检测周期: 2025年12月23日 ~ 2025年12月30日

Test Requested: Select test(s) as requested by the client.
检测要求: 根据客户要求检测

Test Method(s): Please refer to next page(s).
检测方法: 见后续页。

Test Result(s): Please refer to next page(s).
检测结果: 见后续页。

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Chongqing) Co., Ltd.
通标标准技术服务(重庆)有限公司
授权签名

Amber Xu 徐雯雯
Approved Signatory
批准签署人

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Chemical Laboratory

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Test Requirement 检测要求	Conclusion 结论
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 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)	See Results 见检测结果

Test Result(s): 检测结果:

Test Part Description: 检测部件外观描述:

SN ID 样品序号	Sample No. 样品编号	SGS Sample ID SGS 样品 ID	Description 样品描述
SN1	A1+A2	CKG25-0017326-0002	Green plastic + Light brown plastic 绿色塑料 + 浅棕色塑料

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

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/AAS, UV-Vis 和 GC-MS 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A1+A2
Lead (Pb) / 铅 (Pb)	mg/kg	2	ND
Mercury (Hg) / 汞 (Hg)	mg/kg	2	ND



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Test Item(s) 检测项目	Unit(s) 单位	MDL	A1+A2
Cadmium (Cd) / 镉 (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) / 六价铬 (Cr(VI))	mg/kg	8	ND
Polybrominated biphenyls (PBB) / 多溴联苯之和 (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB) / 一溴联苯 (MonoBB)	mg/kg	5	ND
Dibrominated biphenyl (DiBB) / 二溴联苯 (DiBB)	mg/kg	5	ND
Tribrominated biphenyl (TriBB) / 三溴联苯 (TriBB)	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB) / 四溴联苯 (TetraBB)	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB) / 五溴联苯 (PentaBB)	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB) / 六溴联苯 (HexaBB)	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB) / 七溴联苯 (HeptaBB)	mg/kg	5	ND
Octabrominated biphenyl (OctaBB) / 八溴联苯 (OctaBB)	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB) / 九溴联苯 (NonaBB)	mg/kg	5	ND
Decabrominated biphenyl (DecaBB) / 十溴联苯 (DecaBB)	mg/kg	5	ND
Polybrominated diphenyl ethers (PBDE) / 多溴二苯醚之和 (PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE) / 一溴二苯醚 (MonoBDE)	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE) / 二溴二苯醚 (DiBDE)	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE) / 三溴二苯醚 (TriBDE)	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE) / 四溴二苯醚 (TetraBDE)	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE) / 五溴二苯醚 (PentaBDE)	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE) / 六溴二苯醚 (HexaBDE)	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE) / 七溴二苯醚 (HeptaBDE)	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE) / 八溴二苯醚 (OctaBDE)	mg/kg	5	ND



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Test Item(s) 检测项目	Unit(s) 单位	MDL	A1+A2
Nonabrominated diphenyl ether (NonaBDE) / 九溴二苯醚 (NonaBDE)	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE) / 十溴二苯醚 (DecaBDE)	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP) / 邻苯二甲酸丁苄酯 (BBP)	mg/kg	50	ND
Dibutyl phthalate (DBP) / 邻苯二甲酸二丁酯 (DBP)	mg/kg	50	ND
Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯 (DIBP)	mg/kg	50	ND

Notes:

- (1) IEC 62321 series is equivalent to EN 62321 series.
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) Test was conducted on composite of random parts of the item as per client's request .

备注:

- (1) IEC 62321 系列等同于 EN 62321 系列。
- (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) 合测是基于客户要求安排, 选取合测样品中随机部位进行合样检测。

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior written approval of the Company.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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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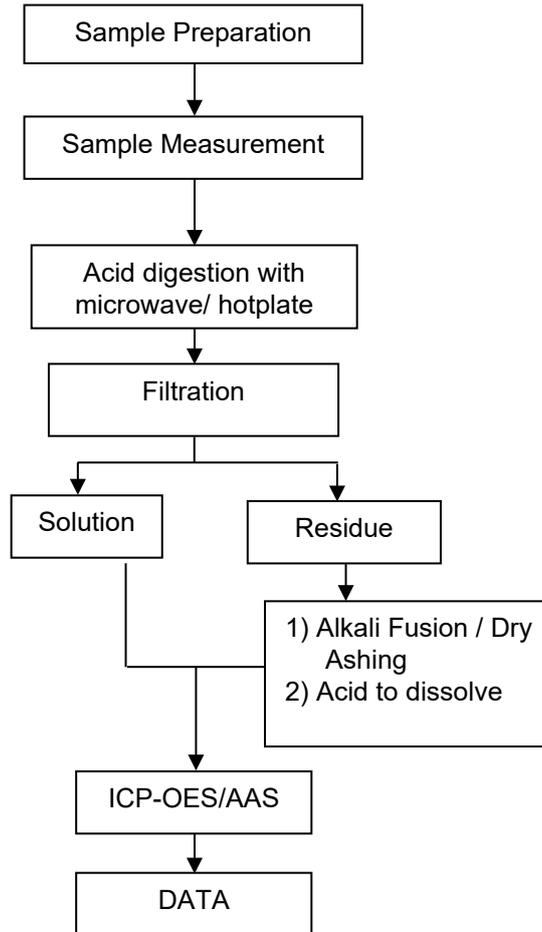
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Elements Testing Flow Chart

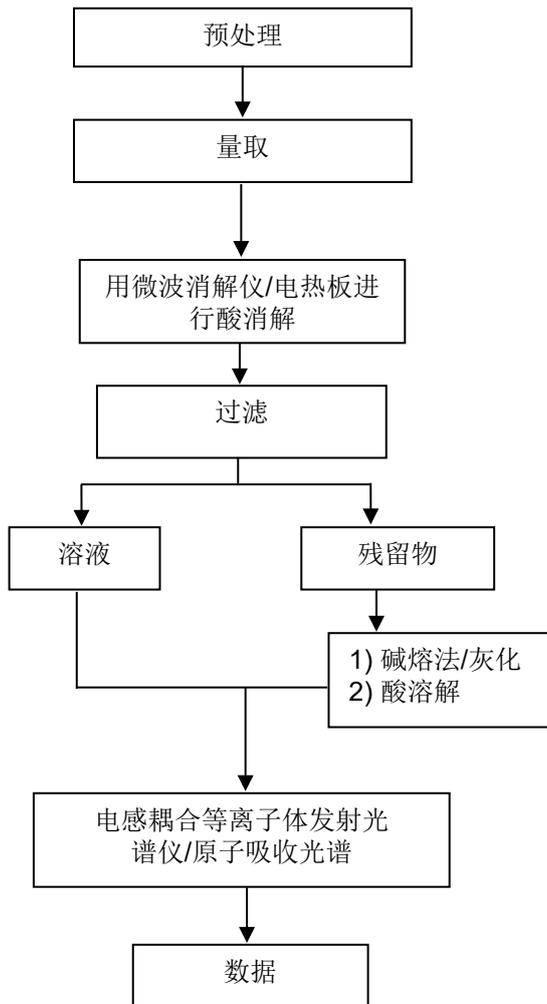
These samples were dissolved totally by pre-conditioning method according to below flow chart.



附件

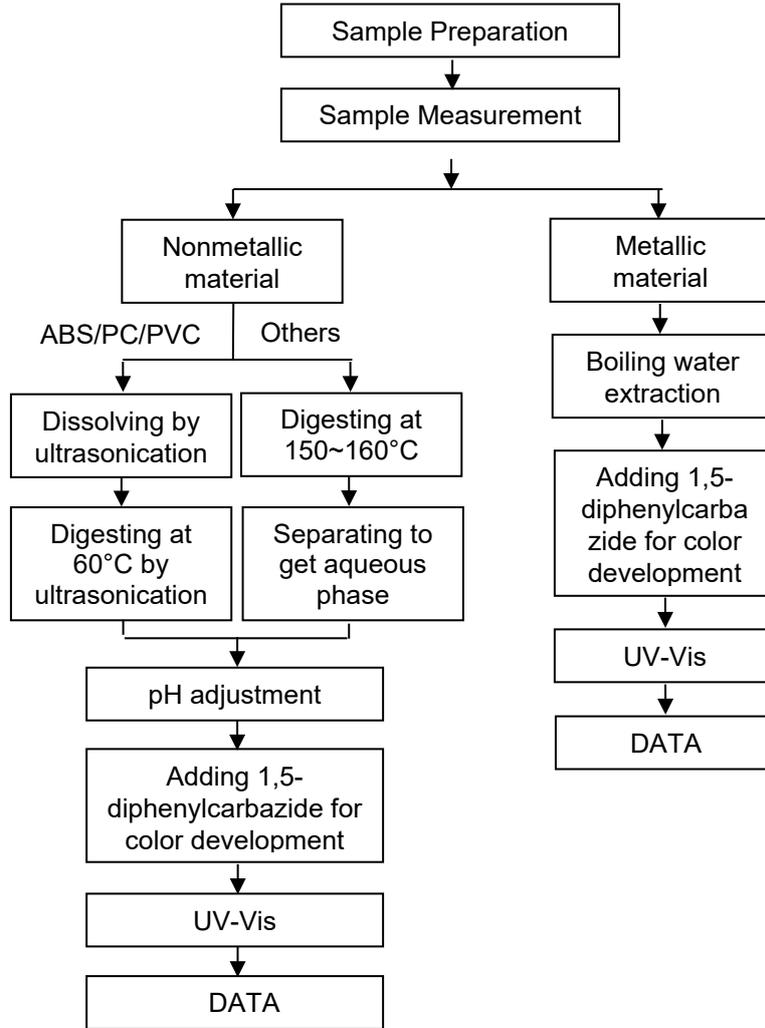
元素检测流程图

样品按照下述流程被完全消解



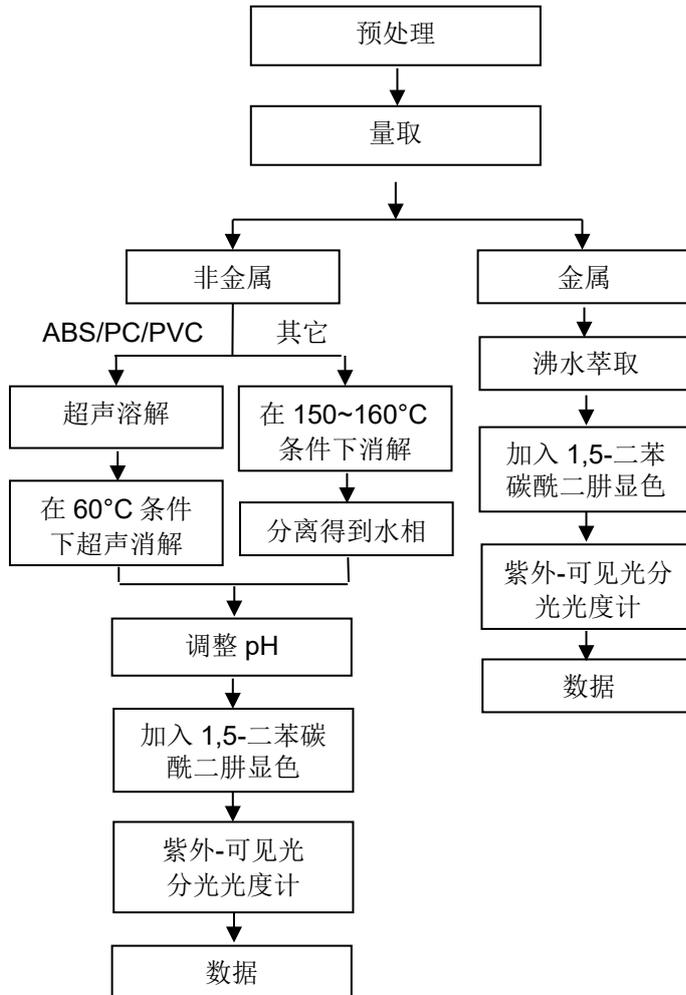
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



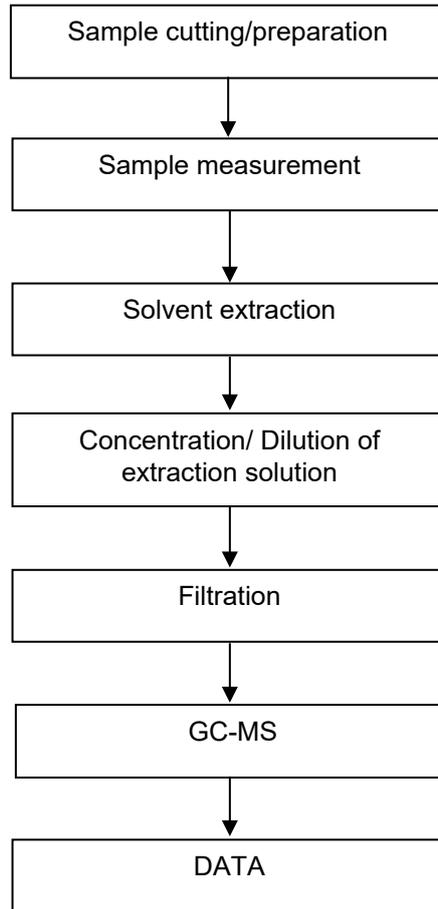
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六价铬检测流程图

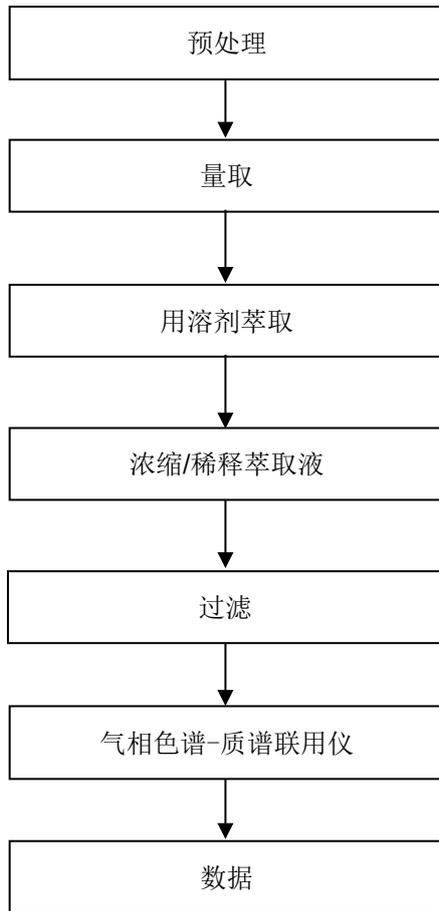


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PBB(s)/PBDE(s) Testing Flow Chart

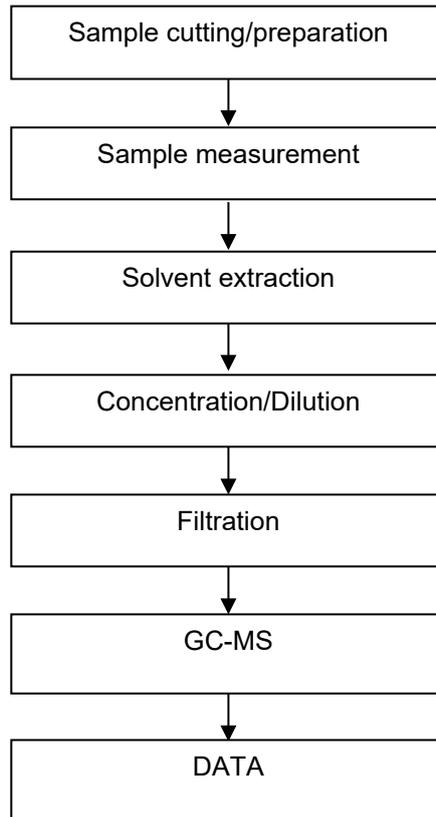


PBB(s)/PBDE(s)检测流程图

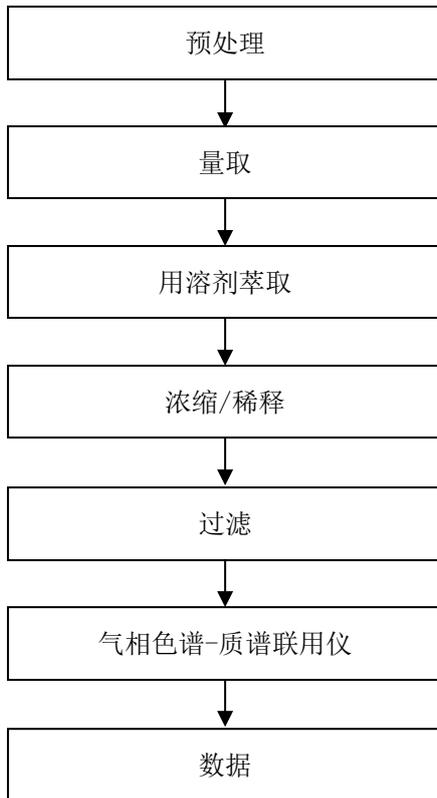


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Phthalates Testing Flow Chart



Phthalates 检测流程图



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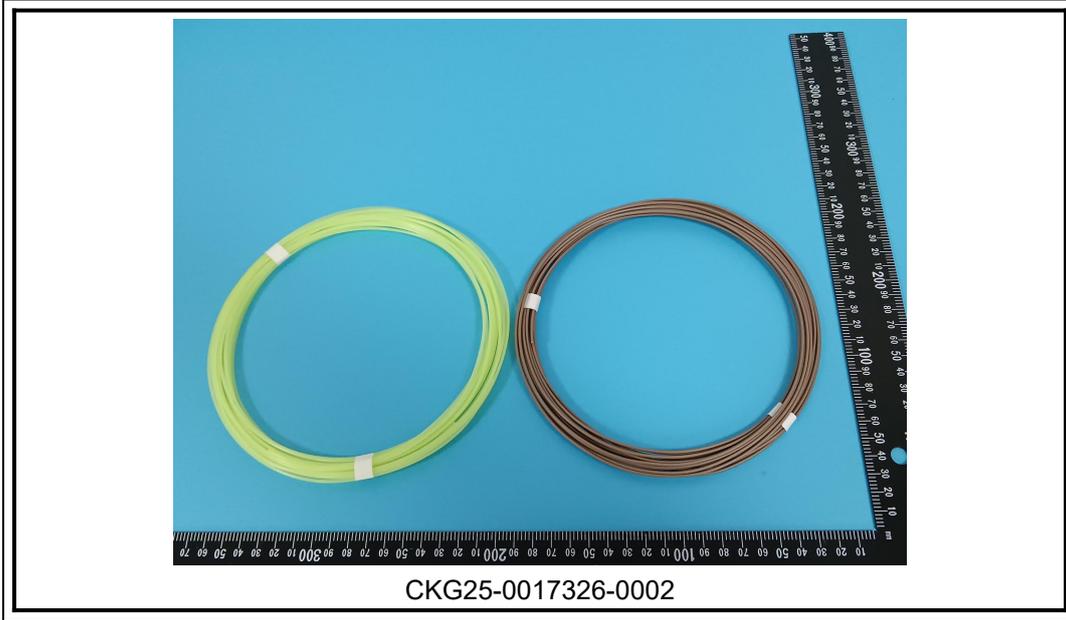
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样品照片:



SGS authenticate the photo on original report only

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*** End of Report ***

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