

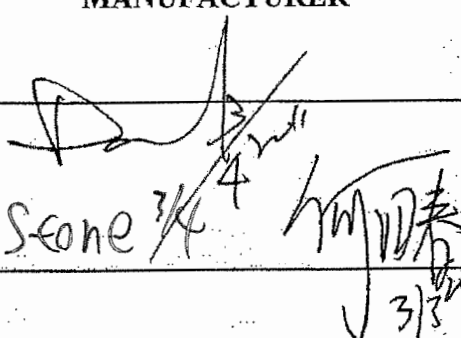
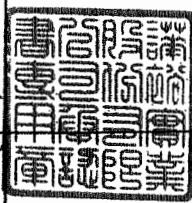


WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

DONGGUAN AEON TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

| | | |
|---------------------|---------------------------|------------------|
| CUSTOMER: | 啟基 | |
| PART NAME: | RF Antenna Assembly | |
| PART NO.: | | REVISION: |
| W. Y. P/NO.: | C478-690079-A(SRF2202151) | REV.: XI |

| | MANUFACTURER | CUSTOMER |
|----------------------|---|--|
| APPROVED BY : |  Seone 3/4 |  |
| DATE : | | |

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譚裕實業股份有限公司

Address: No. 326, Sec. 2, Kung Tao 5 Road, Hsin Chu City, Taiwan, R.O.C.

Tel: +886-3-5714225(REP.) Fax: +886-3-5713853 · +886-3-5723600

DONGGUAN AEON TECH CO., LTD.(CHINA)

東莞台霖電子通訊有限公司

Address: Hupan Industrial District, Tai Ling Shan Town, Dong Guan City, Guangdong, China

Tel: +86-769-85655858 Fax: +86-769-85655258

Contents

| <i>Item</i> | <i>Description</i> | <i>Page</i> |
|-------------|--------------------|--------------|
| 1. | 規格表 | 1 |
| 2. | 成品圖 | 2 |
| 3. | 測試報告 | 3~11 |
| 4. | Cable 材質證明 | 12~14 |
| 5. | Connector 材質證明 | 15 |
| 6. | RoHS測試報告 | 16~169 |
| 7. | RoHS排外條款 | 170 |

RF Antenna Assembly

Specification

1. Electrical Properties : With Housing

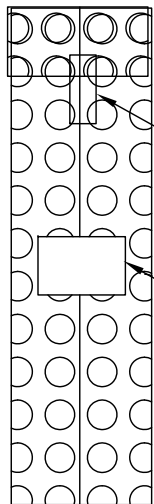
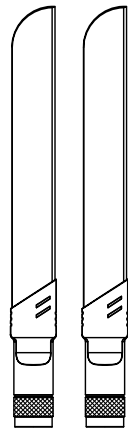
| | |
|--------------------------|--|
| 1.1 Frequency Range..... | 2.4~2.5 ; 4.9~5.825 GHz |
| 1.2 Impedance | 50Ω Nominal |
| 1.3 VSWR | 2.1:1 Max. |
| 1.4 Return Loss | 9 dB Min. |
| 1.5 Peak Gain | 3.5 dBi @ 2.4~2.5 GHz 6.0 dBi @ 4.9~5.825 GHz |
| 1.6 Radiation | Omni-directional |
| 1.7 Admitted Power..... | 1 W |
| 1.8 Polarization..... | Linear |
| 1.9 Cable..... | RG-178 Cable |
| 1.10 Connector..... | N-Type Plug/Standard Connector |

2. Physical Properties :

| | |
|--------------------------|------------------|
| 2.1 Antenna Body | PC;Sabic EXL9330 |
| 2.2 Operating Temp. | -40 ~ +80 °C |
| 2.1 Storage Temp. | -40 ~ +80 °C |
| 2.2 Color | Rice White |

CG-

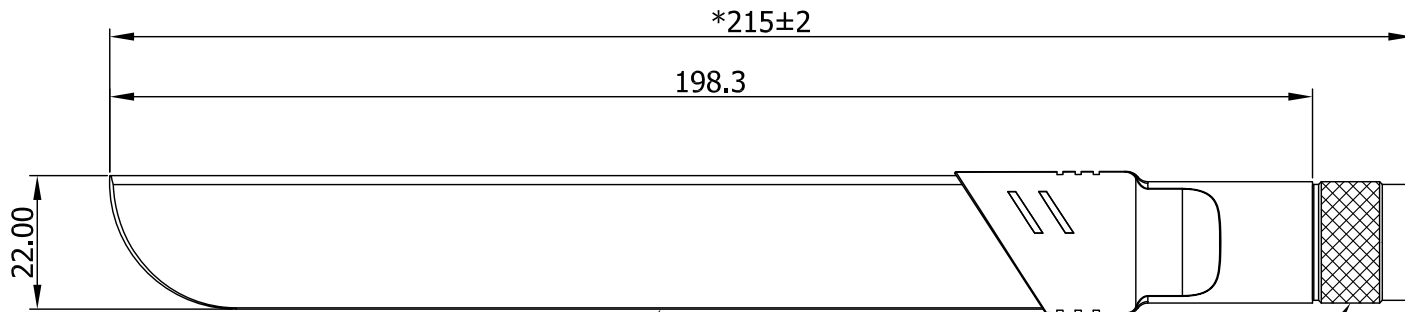
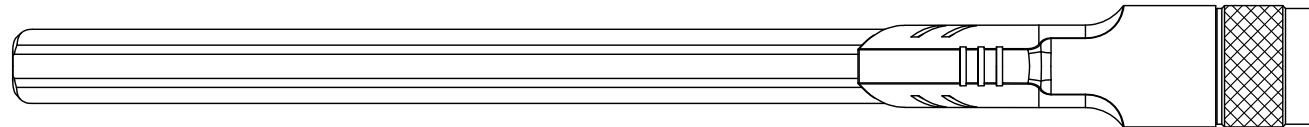
| REV | DATE | DESCRIPTION |
|-----|------------|-------------|
| X1 | 02/08-2022 | New Issue |



Tape

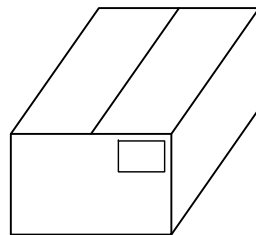
Label

2pcs/bag
氣泡袋



1

2



標籤貼於外箱側麥右上角1PCS

Note: *為重點尺寸標示
成品符合 IPX7

| | | | | |
|----|--------------|--------------------------|---|-----------------|
| 2 | Connector | N-Type Plug Standard | 1 | Brass;Ni Plated |
| 1 | Antenna Body | (CD-990)PC;Sabic EXL9330 | 1 | Rice white |
| NO | DESCRIPTION | | | Q'TY |
| | | | | REMARK |

CUSTOMER'S SINGATURE

| | | |
|------|-------|----------|
| XX. | ± 5.0 | APPROVED |
| X. | ± 3.0 | Spring |
| .X | ± 1.0 | CHECKED |
| .XX | ± 0.5 | |
| .XXX | ± 0.1 | DRAWING |
| ⊕ | ≡ | 白玉俠 |

| | | |
|--------------------------------|------|-------------------|
| CUSTOMER: 啟 碁 | | |
| PART NO : | | |
| PART NAME: RF Antenna Assembly | | |
| W.Y P/NO : C478-690079-A | | |
| REV | UNIT | FILE : SRF2022151 |
| X1 | mm | SHEET : 1/1 |

M.gear Wha Yu Group

THIS DRAWING, AND IT'S INHERANT DESIGN CONCEPTS, ARE THE PROPERTY OF WHA YU AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF WHA YU.

Antenna Test Report

| | |
|---------------------------|-------------------|
| Document Number | SRF2017673 |
| Last Released Date | |
| Designers | |
| Testers | Andy Hung |
| Review by | Sky Lo |

Electrical Specification

| | | |
|--------------------------|------------------------------|----------------------------|
| Rough description | None | |
| Item | Initial Specification | Final Specification |
| Dimensions | None | |
| Impedance | 50Ω | |
| Test environment | None | |
| Spectrum | None | |
| Freq. Range | 2.4~2.5GHz & 4.9~5.825GHz | |
| Antenna type | None | |
| Gain(Peak gain) | None | |
| VSWR | 2.1 : 1 | |
| Radiation | Omni | |
| Polarization | Linear | |
| HPBW / H | None | |
| HPBW / E | None | |
| Rad. efficiency | None | |
| Connector type | N-type | |
| Cable type | None | |
| Cable length | None | |
| Isolation | None | |

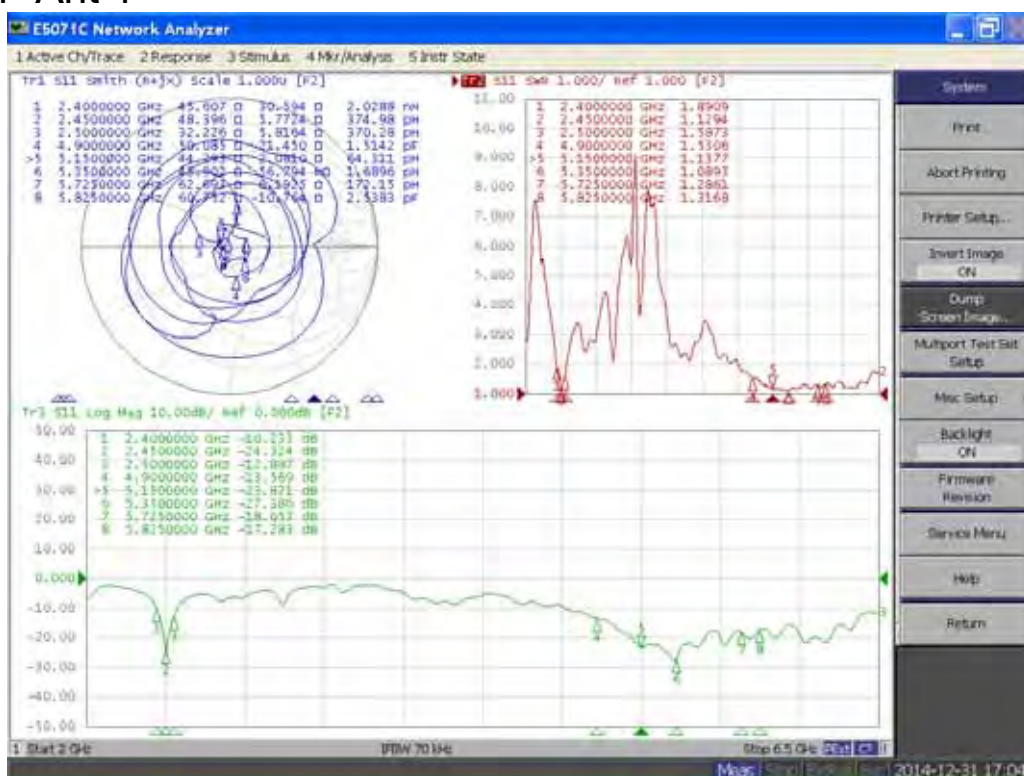
1. Antennas' setup and environment



2. Network Analyzer Measurement

2.1 S11 Test Results

2.1.1 Ant 1



3. Gain & Patterns test results

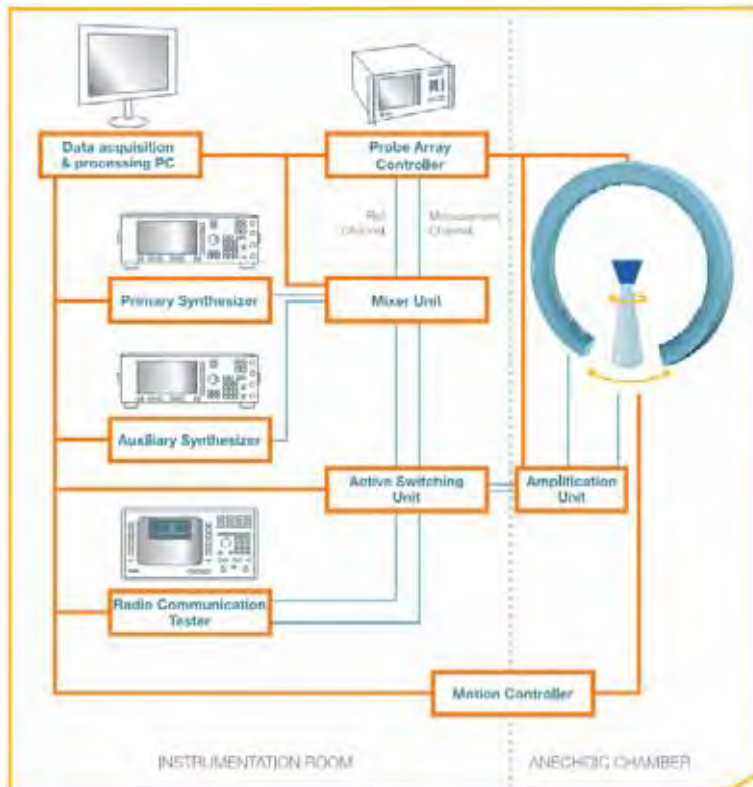
3.1 Lab information

- Lab name : Satimo
- Address : No.326 Sec.2, Kung Tao 5 Road, HsinChu City, Taiwan
- Certification : none (Satimo system certification: CTIA, 3GPP, Wi-Fi alliance and WiMAX Forum)
- Size (LxWxH) : 5m x 5m x 5m
- Isolation level : >100dB
- Normal applications : antenna radiation pattern measurement, OTA performance testing.
- Frequency measurement range : 0.4 to 6 GHz
- EUT scanning method : conical cut method
- Measurement distance : 1.6m
- Measurement antenna specification (for θ and Φ polarization each) : dual polarization antenna for 0.4 to 6.0 GHz frequency range

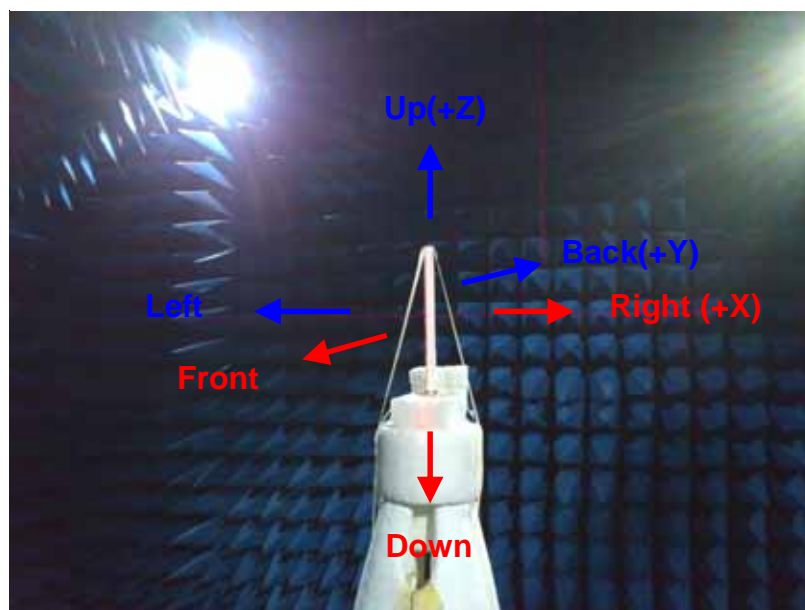
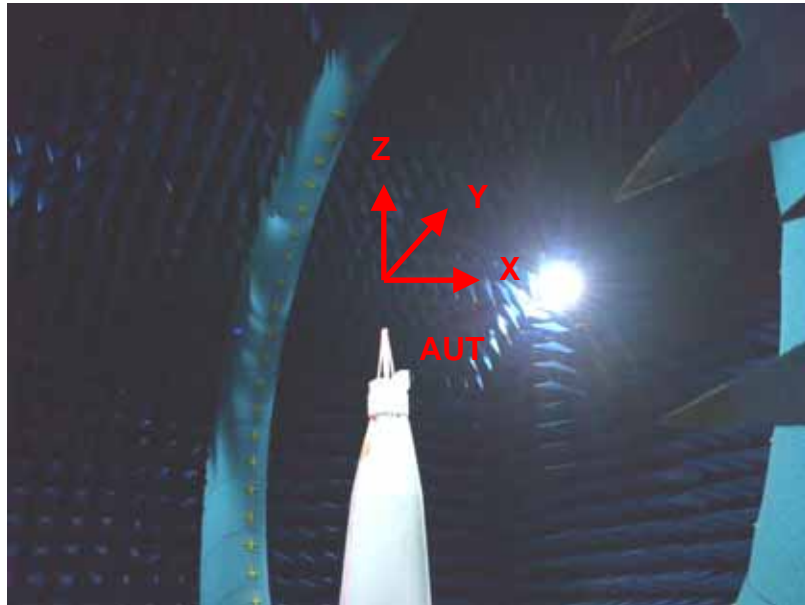


0.4 to 6.0 GHz probe

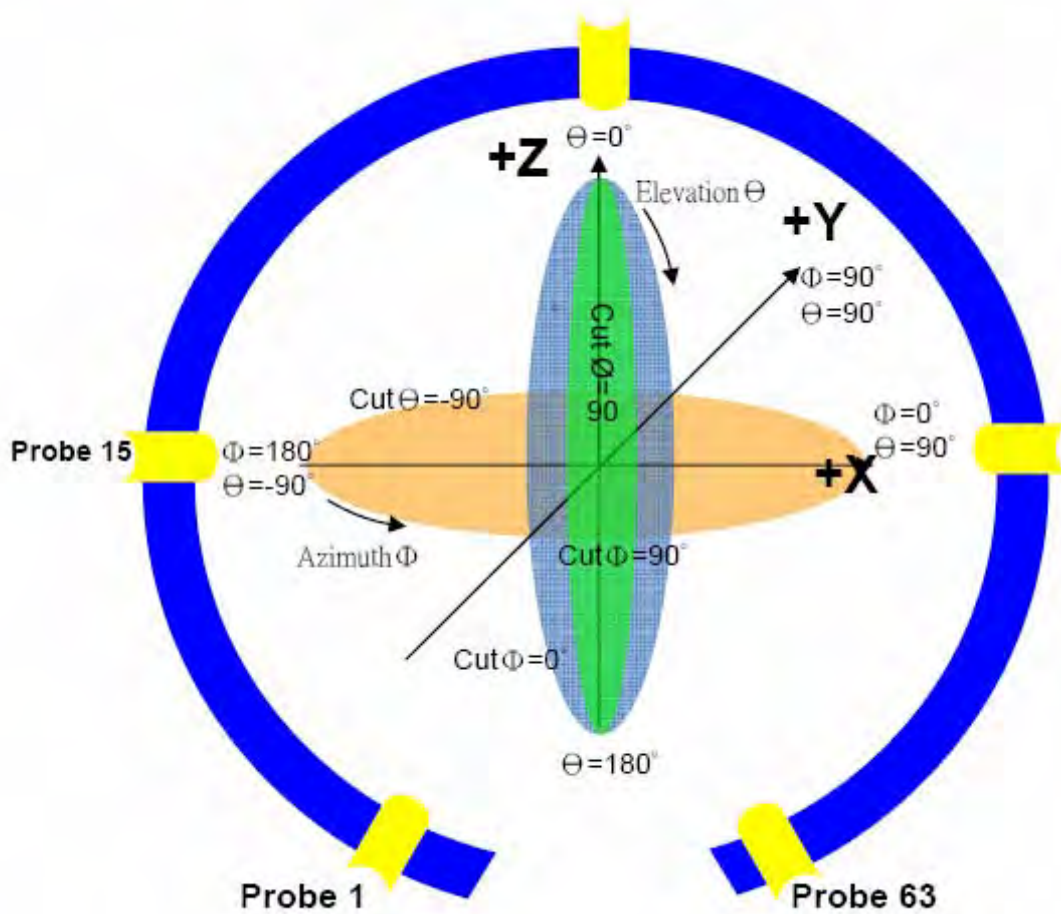
- Equipment list :



3.2 Measurement setting



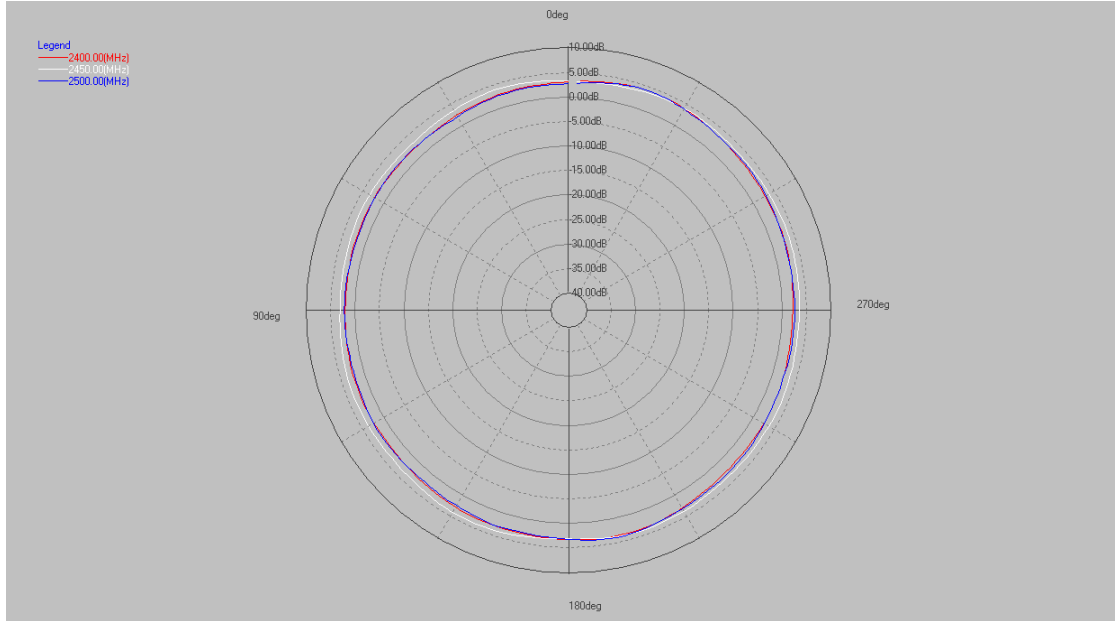
| | XY | YZ | XZ |
|------|-------|-------|-------|
| 0° | Right | Up | Up |
| 90° | Back | Back | Right |
| 180° | Left | Down | Down |
| 270° | Front | Front | Left |



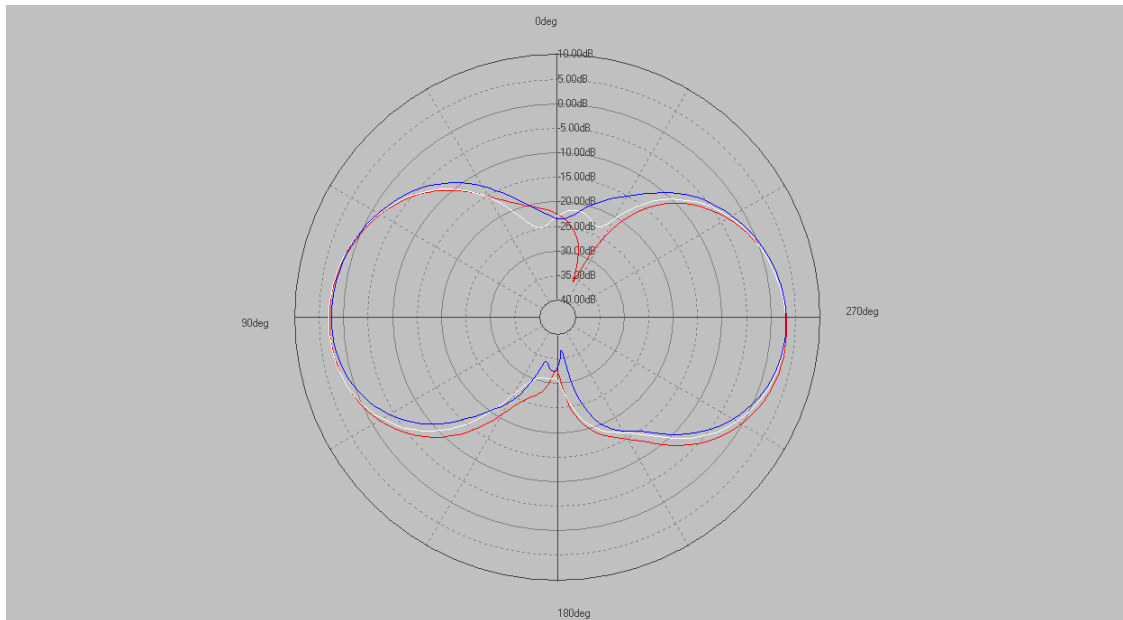
| | θ | ϕ |
|-------------------------------|----------|--------|
| Total angle | 175 | 360 |
| How many angle scan one point | 5 | 5 |
| Total scan point | 36 | 73 |

3.3 2D Patterns

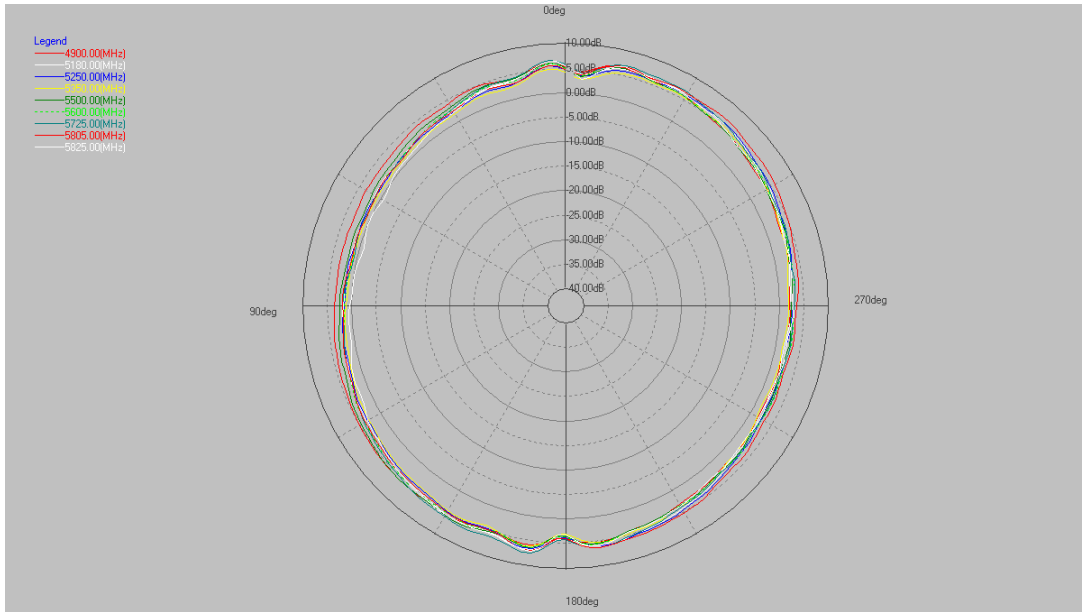
X-Y Plane



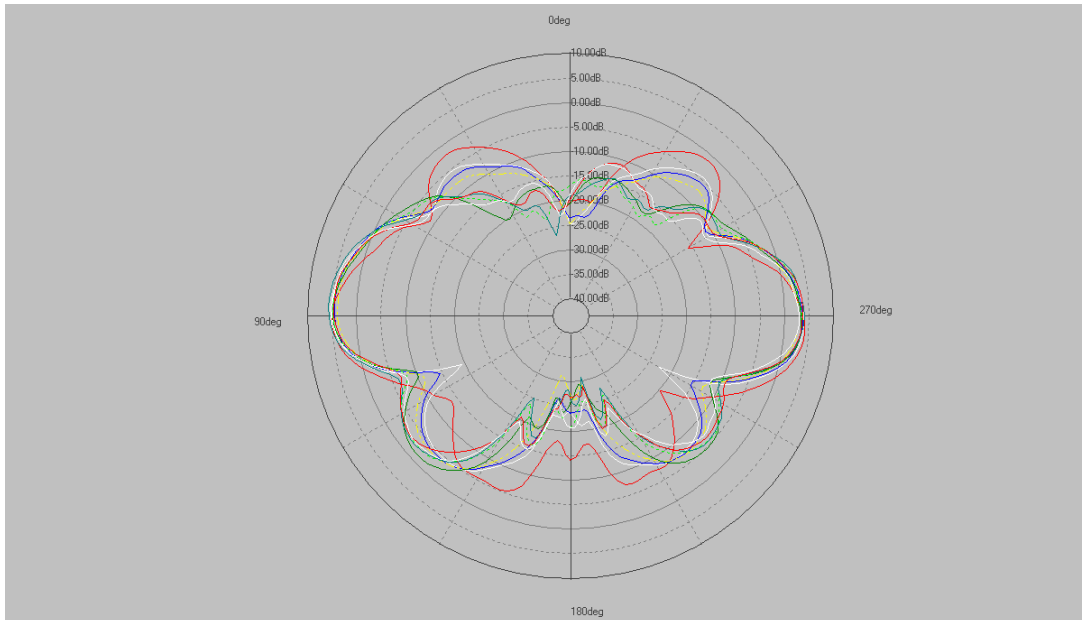
X-Z Plane



X-Y Plane



X-Z Plane



4. Summary

4.1 Return Loss

| Frequency | Ant 1 (dB) |
|-----------|--------------|
| 2400MHz | -10.2 |
| 2450MHz | -24.3 |
| 2500MHz | -12.8 |
| 4900MHz | -13.5 |
| 5150MHz | -23.8 |
| 5350MHz | -27.3 |
| 5725MHz | -18.0 |
| 5825MHz | -17.2 |

4.2 3D total Peak Gain & Efficiency

| Frequency | Ant 1 | |
|-----------|-----------------|----------------|
| | Peak Gain (dBi) | Efficiency (%) |
| 2400MHz | 3.5 | 65.8% |
| 2450MHz | 3.4 | 71.4% |
| 2500MHz | 3.1 | 64.1% |
| 4900MHz | 5.1 | 68.2% |
| 5150MHz | 6.0 | 76.7% |
| 5350MHz | 5.8 | 73.5% |
| 5725MHz | 5.5 | 70.5% |
| 5825MHz | 5.3 | 68.5% |



江阴凯博通信科技有限公司

JiangYin KaiBo Communication Technology CO.,LTD.

DATE : 2021-11-1

Page: 1 to 3

规 格 书

Specification

系列 RG178 (50 Ω)
Series



江阴凯博通信科技有限公司

JiangYin KaiBo Communication Technology CO.,LTD.

DATE : 2021-11-1

Page: 2 to 3

1. 结构图/Configuration



2. 结构/Construction:

| 项目/Item | | 详细资料/Details |
|-------------------------|------------------------------|---------------------------------------|
| ①内导体 Inner conductor | 材料/Material | 镀银铜包钢/Silver plated copper clad steel |
| | 构成(根/mm)/Composition(No./mm) | 7/0.102±0.005 |
| | 标称直径/NOM. O. D | 0.306±0.02 |
| ②绝缘层 Insulation | 材料/Material | 聚全氟乙丙烯/FEP |
| | 标称外径/NOM. O. D | 0.865±0.03 |
| | 颜色/Color | Natural |
| ③外导体 Outer conductor | 材料/Material | 镀银铜线 Cu-silver plated |
| | 形式 Type | 编织/Weaving |
| | 构成/Composition | 16/3/0.1±0.005 |
| | 标称直径/NOM. O. D | 1.32±0.05 |
| ④护套层 Jacket | 材料/Material | 聚全氟乙丙烯/FEP |
| | 标称外径/NOM. O. D | 1.78±0.1 |
| | 颜色/Color | 棕色/Brown |

3. 性能特性 Performance characteristics

| 项目/Item | 单位/Unit | 详细资料/Details | |
|-----------------------------|---------------------|--------------|-------|
| 电容/Capacitance | pF/m | 98 | |
| 特性阻抗/Conductor Resistance | Ω | 50±3.0 | |
| 耐压强度/Dielectric Strength | A. C V/1min | 1000 | |
| 最大工作频率/Max. oper. frequency | MHz | 6000 | |
| 抗拉强度/Tensile strength | kgf/mm ² | 1.76 | |
| 衰减/Attenuation | / | 频率/Frequency | dB/1m |
| | | 1GHz | ≤1.7 |
| | | 2GHz | ≤2.42 |
| | | 3GHz | ≤3.08 |
| | | 4GHz | ≤3.63 |
| | | 5GHz | ≤4.15 |
| 6GHz | ≤4.8 | | |
| 驻波比/Standing wave (0-6GHz) | / | ≤1.3 | |



江阴凯博通信科技有限公司

JiangYin KaiBo Communication Technology CO.,LID.

DATE : 2021-11-1

Page: 3 to 3

4. 机械性能特性 Mechanical characteristics

| 项目 Item | 单位 Unit | 详细资料/Details |
|---|---------|--------------|
| 最小弯曲半径(一次) Min.bending radius static | mm | 8 |
| 工作温度范围 Operating temperature | °C | -50to200 |

5. 使用提示 Use tips

| | |
|--------------------------------|--|
| 存储环境 Storage environment | 温度：30°C以下；湿度：20%~65% |
| 最佳保存周期 The best save cycle | 2个月，2个月以上锡效果变差，但电性能不受影响，夏季高温高湿环境开剥后需尽快流转 |
| 加工温度 Processing temperature | 250°C~260°C的情况下，可短时间承受；300°C以上会出现热分解现象 |
| 铁氟龙收缩 Teflon Shrink | 绝缘层收缩 $\leq 0.2\text{mm}$ ；护套层收缩 $\leq 0.3\text{mm}$ |

6. 包装 Packing

标准单位包装长度为500米/盘，每盘最多允许3个接头，接头最短长度10米，在搬运过程中不能损坏包装。

Standard unit for the 500m/reel length of packaging, each set up to allow 3 joints, the joint shortest length of 10m, The finished cable shall be packed not be damaged during transportation.

7. 其他 Other

特殊加工工艺，请与供方协商后使用。

Special processing technology, please use after consultation with the supplier.



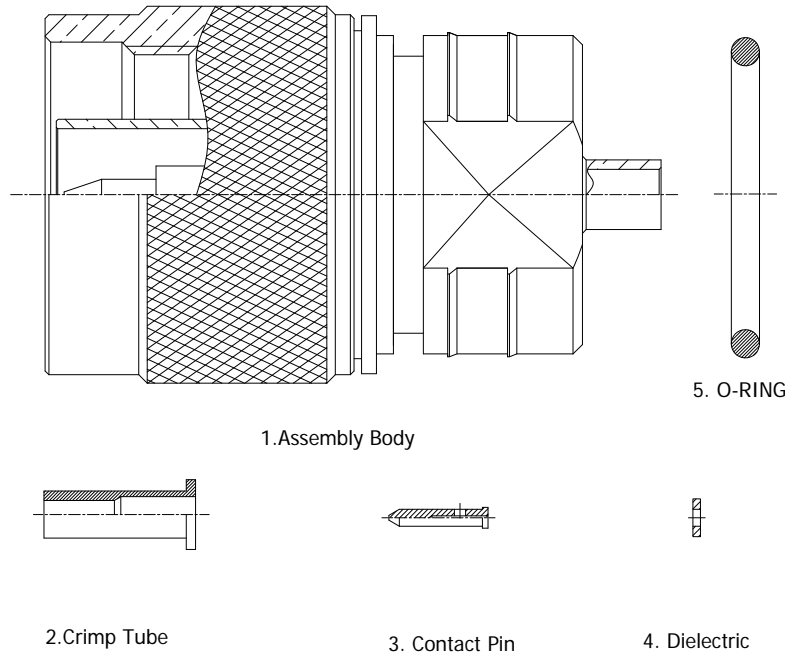
謹裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

| | | | |
|-------------------|----------------|----------------------|----------------------------|
| 謹裕料號 Whayu P/N | 100-2004075-AZ | 產品名稱 Product Name | N Plug Standard For RG-178 |
|-------------------|----------------|----------------------|----------------------------|

結構圖面



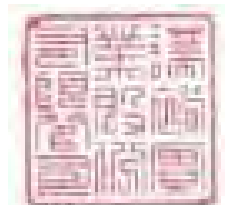
材質成份

表面處理

| 材質成份 | | | | | | | | | 表面處理 | |
|------|---------------|---------|---------|----|----|-------|----|--|---------------|-----|
| 1 | Assembly Body | Brass | Cu | Pb | Fe | Fe+Sn | Zn | | Nickel Plated | |
| 2 | Crimp Tube | Brass | Cu | Pb | Fe | Fe+Sn | Zn | | Nickel Plated | |
| 3 | Contact Pin | Brass | Cu | Pb | Fe | Fe+Sn | Zn | | Gold Plated | |
| 4 | Dielectric | Teflon | PTFE | | | | | | | |
| 5 | O-RING | Silicon | Silicon | | | | | | | Red |

Remark :

請蓋公司章



SGS Test Report

Product : RF Antenna Assembly

Content

| No | Description | Report No. | Page |
|----|--------------|--|-----------|
| 1 | Cable | 外被 色母 編織 絕緣 導體 A2210176777101001E HKTEC2102511719 SHAEC2127051115 NGBML2200124301 A2220020280101002 | P.17~74 |
| 2 | Connector | Brass PTFE Gold Plated Ni Plated Silicone CANEC2110983505 SHAEC2118528401 SZXEC2103405301 SZXEC2103405307 CANEC2103066123 | P.75~104 |
| 3 | Antenna Body | PC;Sabic EXL9330 A2210204804101001 | P.105~111 |
| 4 | PCB | LNB33 Green ink White ink OSP CANEC2103944807 A221043195210100109E SHAEC2125040401 A2210278310101017 | P.112~151 |
| 5 | 泡棉背膠 | EVA G4000 CANEC2124348309 ETR22105664 ETR22105665 | P.152~169 |

Result for RoHS : PASS



报告编号 A2210176777101001E
Report No. A2210176777101001E

第 1 页 共 8 页
Page 1 of 8

报告抬头公司名称 金华永和氟化工有限公司
Company Name JINHUA YONGHE FLUORO-CHEMICAL CO., LTD
shown on Report
地 址 浙江省金华市经济技术开发区（金西片区）青莲路896号
Address QINGLIAN ROAD 896#, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE (THE WEST), JINHUA, ZHEJIANG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 聚全氟乙丙烯树脂
Sample Name FEP
材料名称 聚全氟乙丙烯树脂
Material FEP
样品接收日期 2021.05.12
Sample Received Date May 12, 2021
样品检测日期 2021.05.12-2021.05.17
Testing Period May 12, 2021 to May 17, 2021

检测要求 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).



主 检 蒋雪庆

张琳

张琳 技术经理 Technical Manager

审 核
Reviewed by
日 期
Date

陈汐

2021.05.17

No. R219921752

宁波高新区菁华路76号厂区东首第一、二层
1-2F, Eastern Factory, No.76, Jinghua Road, High-Tech Zone, Ningbo, Zhejiang, China

检测报告 Test Report

报告编号 A2210176777101001E
Report No. A2210176777101001E

第 2 页 共 8 页
Page 2 of 8

结论 Conclusion

| 测试样品 Tested Sample | 依据标准/指令 According to standard/directive | 结果 Result |
|--------------------------|--|--------------|
| 提交样品 Submitted Sample | 欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | 符合 PASS |

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

检测报告

Test Report

报告编号 A2210176777101001E

Report No. A2210176777101001E

第 3 页 共 8 页

Page 3 of 8

检测依据 Test Method

| 测试项目 Test Item(s) | 测试方法 Test Method | 测试仪器 Measured Equipment(s) |
|---|--|----------------------------------|
| 铅 Lead (Pb) | 参考IEC 62321-5:2013 Refer to IEC 62321-5:2013 | ICP-OES |
| 镉 Cadmium (Cd) | 参考IEC 62321-5:2013 Refer to IEC 62321-5:2013 | ICP-OES |
| 汞 Mercury (Hg) | 参考IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| 六价铬 Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| 多溴联苯 Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |

检测报告 Test Report

报告编号 A2210176777101001E

第 4 页 共 8 页

Report No. A2210176777101001E

Page 4 of 8

检测结果 Test Result(s)

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|----------------------------------|-----------|-----------|------------|
| 铅 Lead (Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| 镉 Cadmium (Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| 汞 Mercury (Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| 六价铬 Hexavalent Chromium (Cr(VI)) | N.D. | 8 mg/kg | 1000 mg/kg |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|-----------|-----------|------------|
| 多溴联苯 Polybrominated Biphenyls (PBBs) | | | |
| 一溴联苯 Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴联苯 Dibromobiphenyl | N.D. | 5 mg/kg | |
| 三溴联苯 Tribromobiphenyl | N.D. | 5 mg/kg | |
| 四溴联苯 Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| 五溴联苯 Pentabromobiphenyl | N.D. | 5 mg/kg | |
| 六溴联苯 Hexabromobiphenyl | N.D. | 5 mg/kg | |
| 七溴联苯 Heptabromobiphenyl | N.D. | 5 mg/kg | |
| 八溴联苯 Octabromobiphenyl | N.D. | 5 mg/kg | |
| 九溴联苯 Nonabromobiphenyl | N.D. | 5 mg/kg | |
| 十溴联苯 Decabromobiphenyl | N.D. | 5 mg/kg | |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|-----------|-----------|------------|
| 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) | | | |
| 一溴二苯醚 Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴二苯醚 Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| 三溴二苯醚 Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| 四溴二苯醚 Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| 五溴二苯醚 Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| 六溴二苯醚 Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| 七溴二苯醚 Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| 八溴二苯醚 Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| 九溴二苯醚 Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| 十溴二苯醚 Decabromodiphenyl ether | N.D. | 5 mg/kg | |

检测报告
Test Report

报告编号 A2210176777101001E

Report No. A2210176777101001E

第 5 页 共 8 页

Page 5 of 8

检测结果 Test Result(s)

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|--|-----------|-----------|------------|
| 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP) | | | |
| 邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |

样品/部位描述 无色透明塑料颗粒
Sample/Part Description Colorless transparent plastic grains

备注: 对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

检测报告 Test Report

报告编号 A2210176777101001E

第 6 页 共 8 页

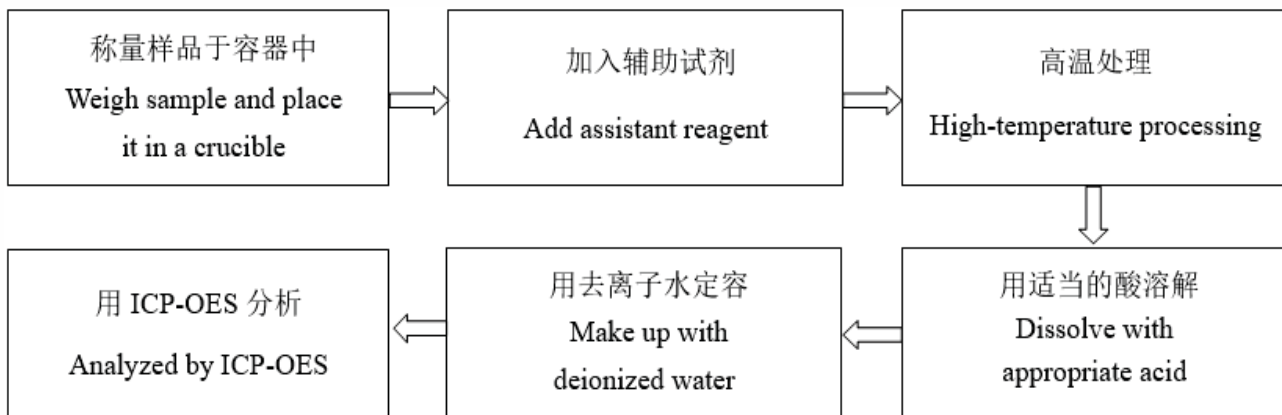
Report No. A2210176777101001E

Page 6 of 8

检测流程 Test Process

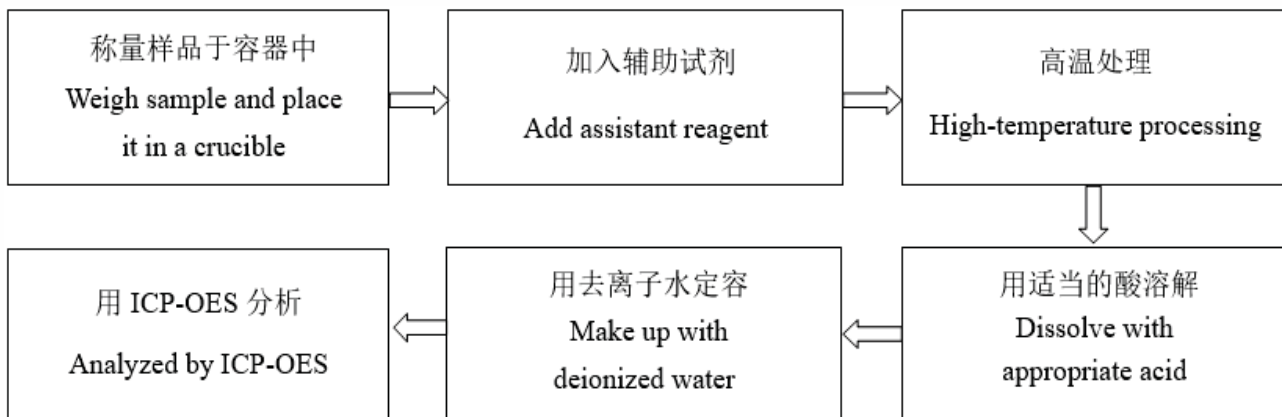
1. 铅(Pb), 镉(Cd), 铬(Cr)

Lead (Pb), Cadmium (Cd), Chromium (Cr)



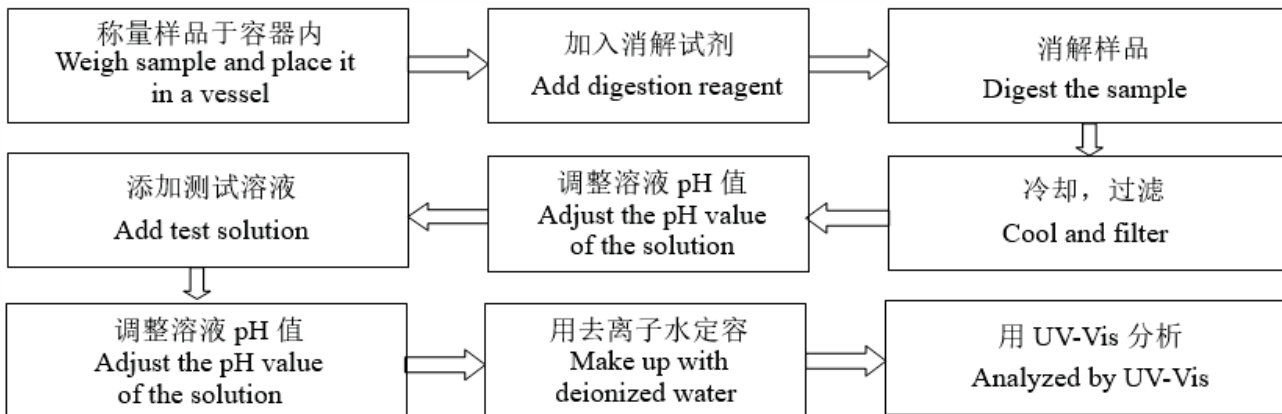
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



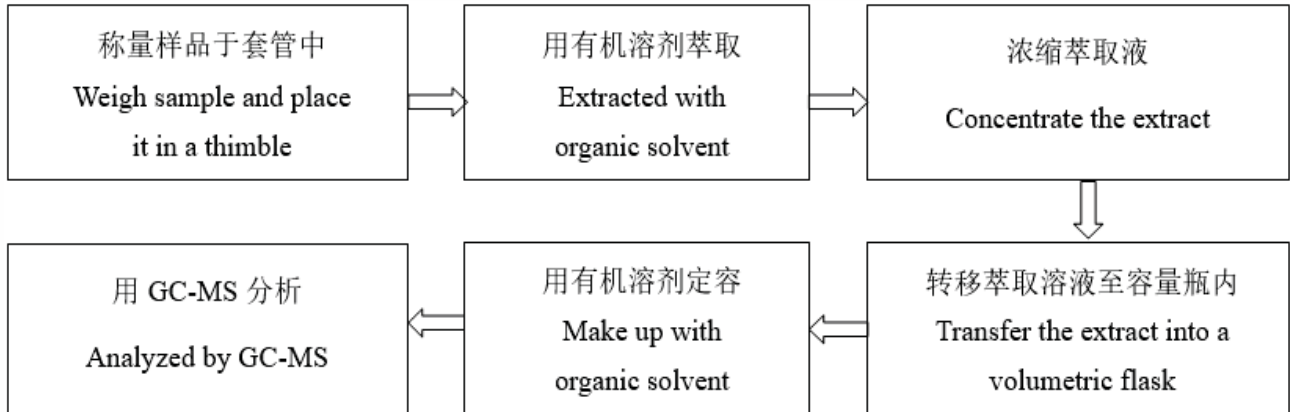
检测报告 Test Report

报告编号 A2210176777101001E
Report No. A2210176777101001E

第 7 页 共 8 页
Page 7 of 8

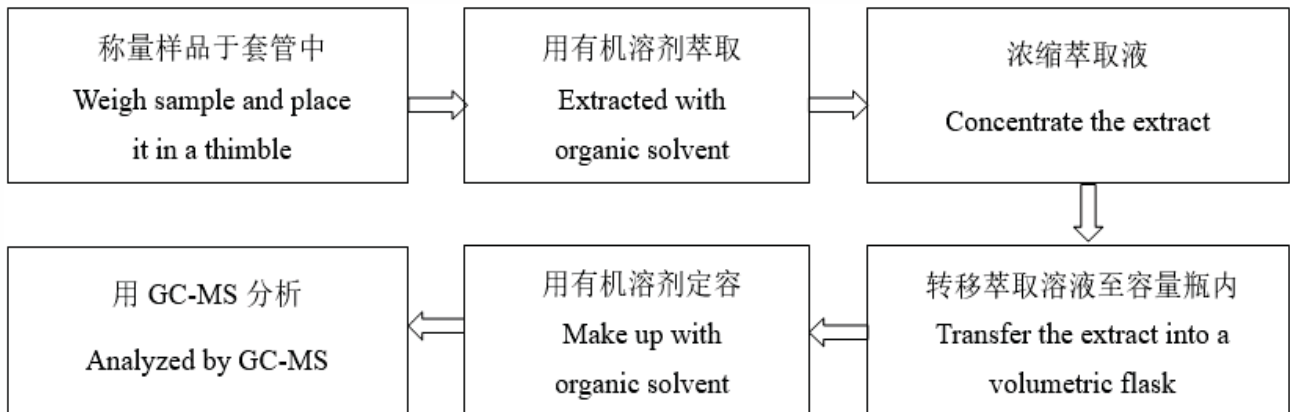
4. 多溴联苯 (PBBs), 多溴二苯醚 (PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



检测报告 Test Report

报告编号 A2210176777101001E
Report No. A2210176777101001E

第 8 页 共 8 页
Page 8 of 8

样品图片 Photo(s) of the sample(s)



声明 Statement:

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This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
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In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

报告结束

*** End of report ***



Test Report

No. HKTEC2102511719

Date: 11 Jun 2021

Page 1 of 12

DAINICHISEIKA COLOR & CHEMICALS MFG. CO., LTD.

7-6, BAKUROCHO 1-CHOME, NIHONBASHI

CHUO-KU

TOKYO 103-8383

JAPAN

The following sample(s) was/were submitted and identified on behalf of the clients as : FCM STI 138K BROWN

SGS Job No. : 4834626 - HK

Lot No. : 1619C274

Country of Origin : JAPAN

Date of Sample Received : 31 May 2021

Testing Period : 31 May 2021 - 11 Jun 2021

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Based on the performed tests on submitted samples, the test results do not exceed the limit as set by the requirement of European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD).

Based on the performed tests on submitted sample(s), the test results do not exceed the limit as set by European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances , PFOS and its derivatives.

Signed for and on behalf of
SGS Hong Kong Limited.

Wong Ka Ming, Polly
Chemist

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Test Report

No. HKTEC2102511719

Date: 11 Jun 2021

Page 2 of 12

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|----------------------|
| 1 | HKT21-025117.019 | Brown plastic pellet |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, Hg analyzer, UV-Vis and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

| Test Item(s) | Limit | Unit | MDL | 019 |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1,000 | mg/kg | 8 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |

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Test Report

No. HKTEC2102511719

Date: 11 Jun 2021

Page 3 of 12

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl Phthalate (DBP) | 1,000 | mg/kg | 50 | ND |
| Benzylbutyl Phthalate (BBP) | 1,000 | mg/kg | 50 | ND |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 1,000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 1,000 | mg/kg | 50 | ND |

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Halogen

Test Method : With reference to EN 14582:2016, analysis was performed by IC.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> |
|---------------------|--------------|-------------|------------|------------|
| Fluorine (F) | - | mg/kg | 50 | 260000 |
| Chlorine (Cl) | - | mg/kg | 50 | ND |
| Bromine (Br) | - | mg/kg | 50 | ND |
| Iodine (I) | - | mg/kg | 50 | ND |

Notes :

(1) The measurement report of the expanded uncertainty with confident level 95% by coverage factor k=2, is 20% for each analyte of Fluorine, Chlorine, Bromine and Iodine.

European Regulation POPs (EU) 2019/1021 – Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)

Test Method : With reference to SGS inhouse method-CTS-SL-235-1, analysis was performed by GC-MS.
(Decision Rule: please refer to appendix 1: Category 1)

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> |
|--|--------------|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) | 100 | mg/kg | 10 | ND |

Conclusion

PASS

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European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances , PFOS and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

| <u>Test Item(s)</u> | <u>CAS NO</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>019</u> |
|---|---------------|--------------|-------------|------------|------------|
| Perfluorooctanoic acid (PFOA) and its salts+ | -- | 0.025 | mg/kg | 0.010 | ND |
| PFOA-related substances | -- | 1 | mg/kg | - | ND |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS) | 39108-34-4 | - | mg/kg | 1 | ND |
| Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | - | mg/kg | 1 | ND |
| Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | - | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) | 678-39-7 | - | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | - | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) | 1996-88-9 | - | mg/kg | 1 | ND |
| Perfluoro-1-iodooctane (PFOI) | 507-63-1 | - | mg/kg | 1 | ND |
| Perfluorooctane sulfonates (PFOS) and its derivatives | -- | 1,000 | mg/kg | - | ND |
| Perfluorooctane sulfonates (PFOS)^ | 1763-23-1 | - | mg/kg | 1 | ND |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | - | mg/kg | 1 | ND |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | - | mg/kg | 1 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE) | 1691-99-2 | - | mg/kg | 1 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (MeFOSE) | 24448-09-7 | - | mg/kg | 1 | ND |
| Perfluorooctane sulfonamide (PFOSA) | 754-91-6 | - | mg/kg | 1 | ND |

Conclusion

PASS

Notes :

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8),

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Test Report

No. HKTEC2102511719

Date: 11 Jun 2021

Page 5 of 12

PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
(2) ^ PFOS refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.:
29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8),
PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.:
307-35-7)

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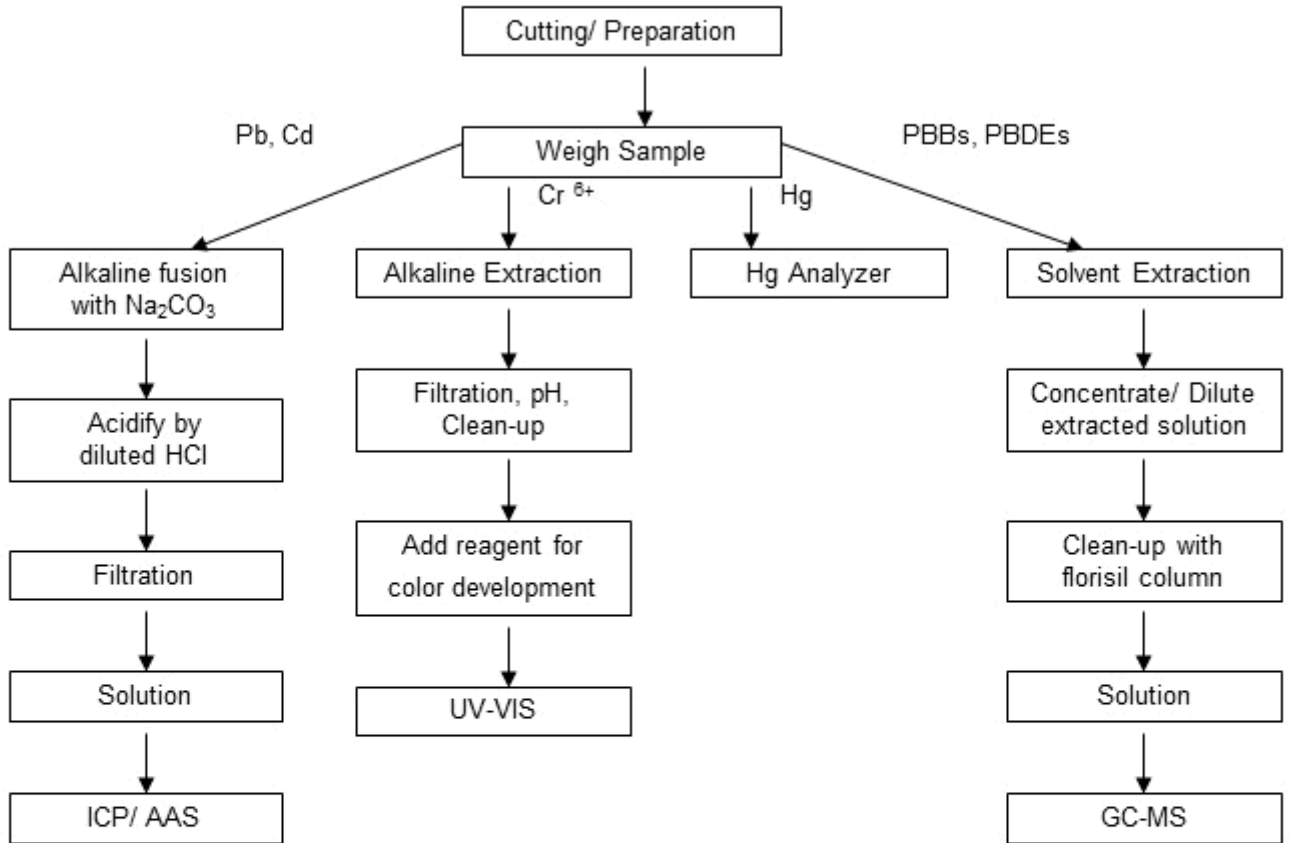
Appendix 1

| Category | Decision Rule Statement |
|----------|--|
| 1 | The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U95$) in ILAC-G8:09/2019 Clause 4.2.3. A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%". B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%". C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%". D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%. |
| 2 | The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results. |
| 3 | The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement". |
| 4 | The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result) |
| 5 | The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result. |
| 6 | The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H |
| 7 | The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5) |
| 8 | The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2) |
| Remark | If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report. |

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Flowchart:



Note : 1) The polymeric samples were dissolved totally by pre-conditioning method according to above flow chat for Cd and Pb contents analysis

Operator : Chiu Kan Yuen (Alkaline Fusion)
Alex Yip (Hg Analyzer)
Nick Liu (Hexavalent Chromium)
Kent Wan (PBBs and PBDEs)

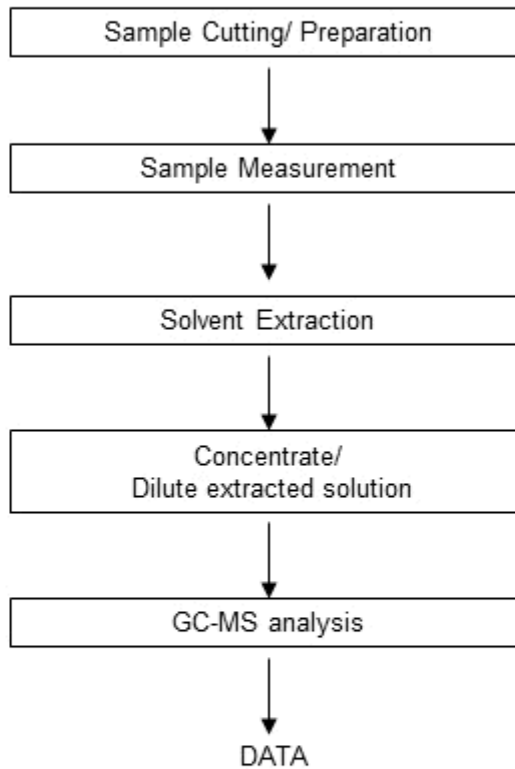
Section Chief : Chan Chun Kit (Dickson Chan)

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Flowchart for Phthalates measurement

Method: IEC 62321-8:2017



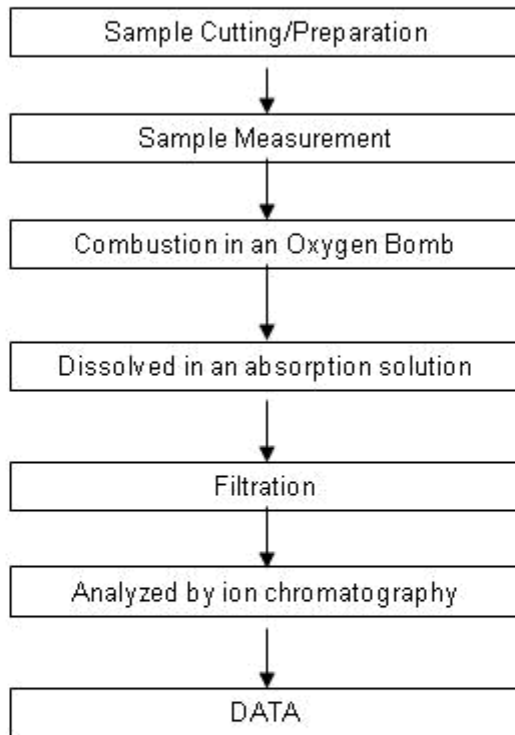
Tested by : Lumpy Lee
 Checked by : Edmund Kwan

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Flowchart for Halogen Free Test

Method: BS EN14582:2016



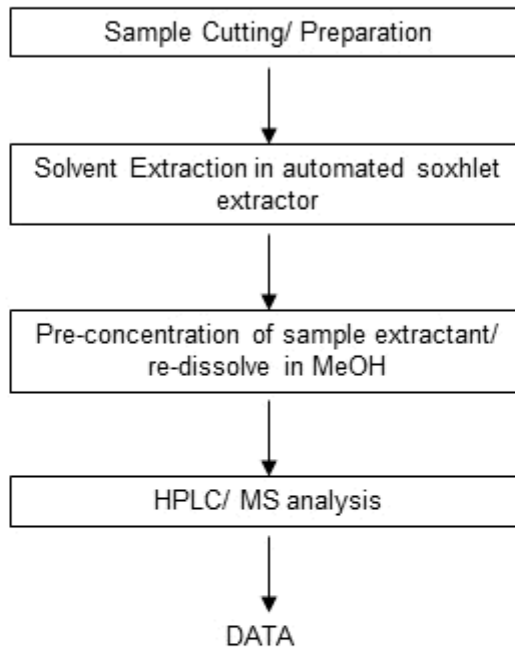
Operator: Tang Ying Sam
 Supervisor: Chan Chun Kit (Dickson)

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Flowchart for PFOS/ PFOA measurement

Method: CEN/TS15968:2010



Operator : Candy Luk

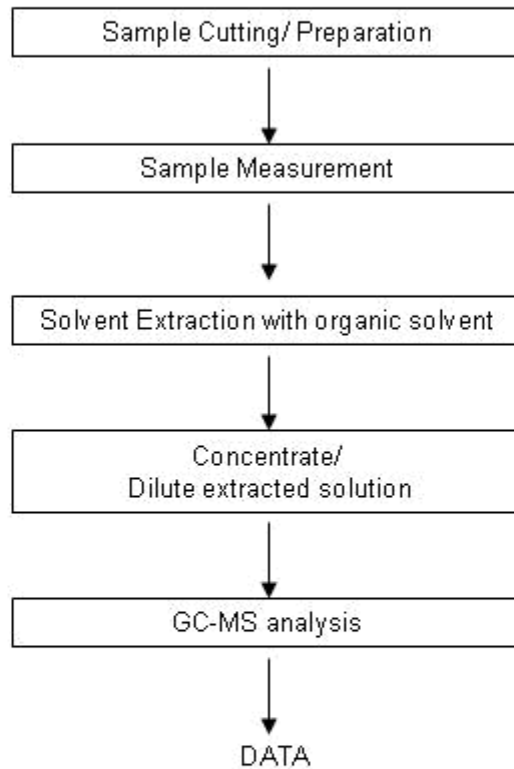
Chief Supervisor : Yu Ka Lai

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Flowchart for HBCDD measurement

Method: In-house Method



Tested by : Tang Sze Hon, Gary
 Checked by : Fok Chi Shan

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Test Report

No. HKTEC2102511719

Date: 11 Jun 2021

Page 12 of 12

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No. SHAEC2127051115

Date: 16 Dec 2021

Page 1 of 14

Changzhou Hengfeng Special Conductor Co., Ltd.

No. 26, FengHuang Road , TianNing District , ChangZhou City, JiangSu Province

The following sample(s) was/were submitted and identified on behalf of the clients as : SILVER-COATED COPPER WIRE

SGS Job No. : SP21-037895 - SH
Date of Sample Received : 10 Dec 2021
Testing Period : 10 Dec 2021 - 16 Dec 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Sue Sheng
Approved Signatory

scan to see the report



8AD7554E



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|--------------------------|
| SN1 | SHA21-270511.025 | Silvery white plating |
| SN2 | SHA21-270511.026 | Copper metal wire |
| SN3 | SHA21-270511.027 | Silvery white metal wire |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit | MDL | 026 |
|-------------------------------|-------|--------------------|------|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. SHAEC2127051115

Date: 16 Dec 2021

Page 3 of 14

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>026</u> |
|-----------------------------------|--------------|-------------|------------|------------|
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Di-butyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2)▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>025</u> |
|-------------------------------|--------------|--------------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 10 | ND |
| Lead (Pb) | 1000 | mg/kg | 10 | ND |
| Mercury (Hg) | 1000 | mg/kg | 10 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |

Notes :

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.



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IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2)▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm².

The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Element(s)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

| Test Item(s) | Unit | MDL | 027 |
|----------------|-------|-----|-----|
| Beryllium (Be) | mg/kg | 5 | ND |
| Antimony (Sb) | mg/kg | 10 | ND |

Perfluorooctanesulfonate (PFOS) and its derivatives

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

| Test Item(s) | CAS NO. | Unit | MDL | 027 |
|--|------------|-------|-----|-----|
| Perfluorooctane sulfonates (PFOS) and its derivatives | - | mg/kg | - | ND |
| PFOS^ | 1763-23-1 | mg/kg | 10 | ND |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | mg/kg | 10 | ND |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | mg/kg | 10 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE) | 1691-99-2 | mg/kg | 10 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE) | 24448-09-7 | mg/kg | 10 | ND |
| Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 | mg/kg | 10 | ND |

Notes :

(1) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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Benzenamine,N-phenyl-,Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)

Test Method : With reference to EPA method 3550C:2007 & EPA method 8270D: 2014, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>027</u> |
|--|----------------|-------------|------------|------------|
| Benzenamine,N-phenyl-,Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST) | 68921-45-9 | mg/kg | 10 | ND |

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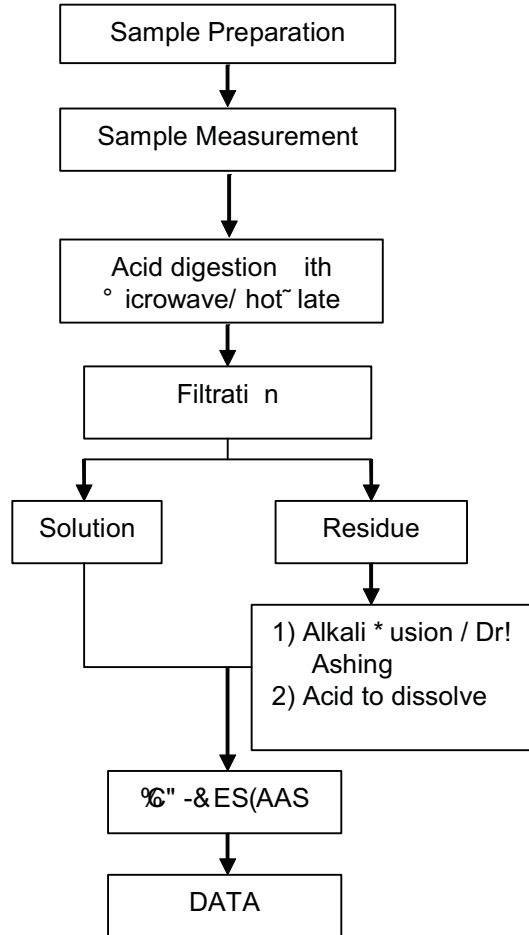


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 Testing Center, China

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Elements (IEC62321) Testing Flow Chart

1) These samples are dissolved totally! ! pre-conditioning method according to below flow chart.

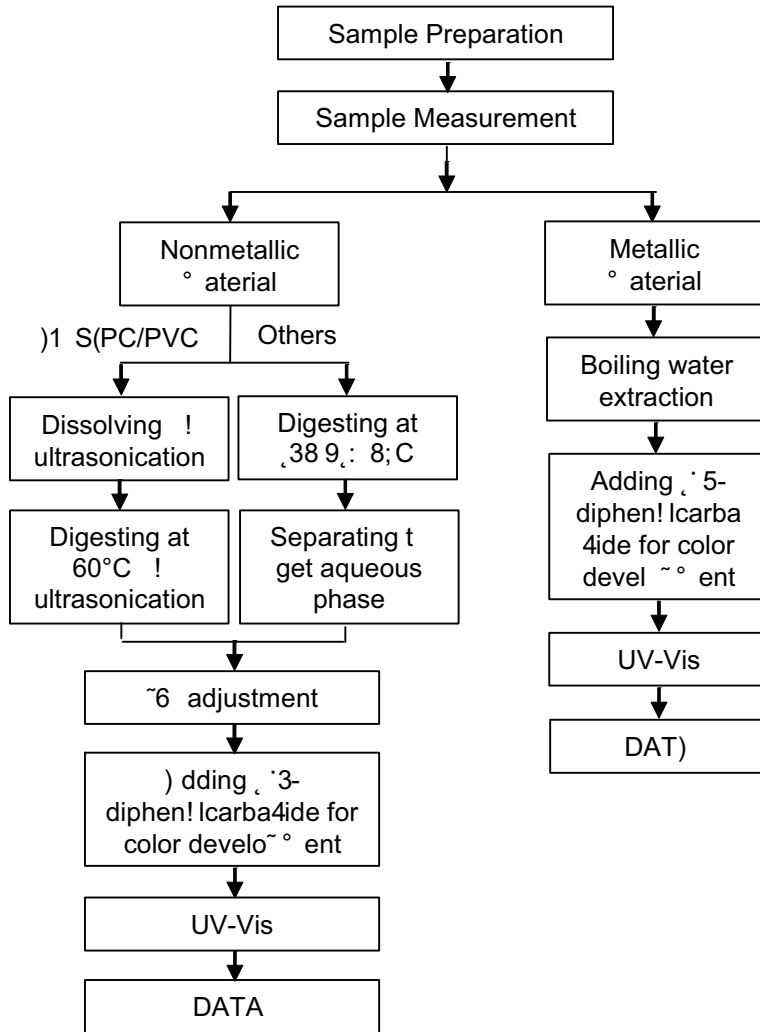


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

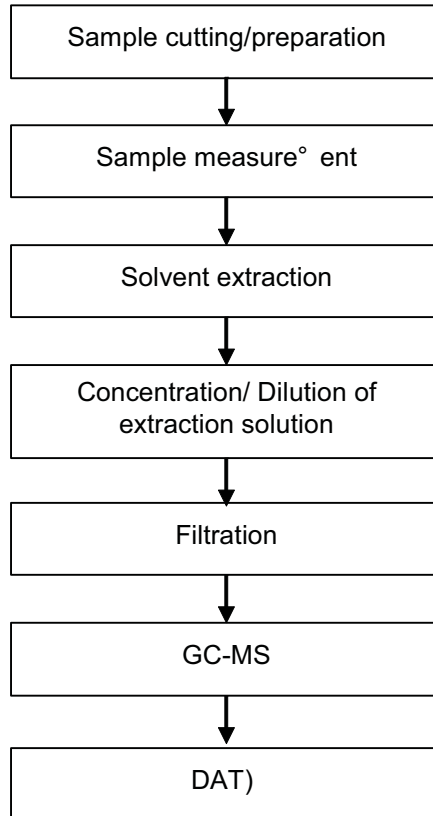


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PBBs/PBDEs Testing Flow Chart



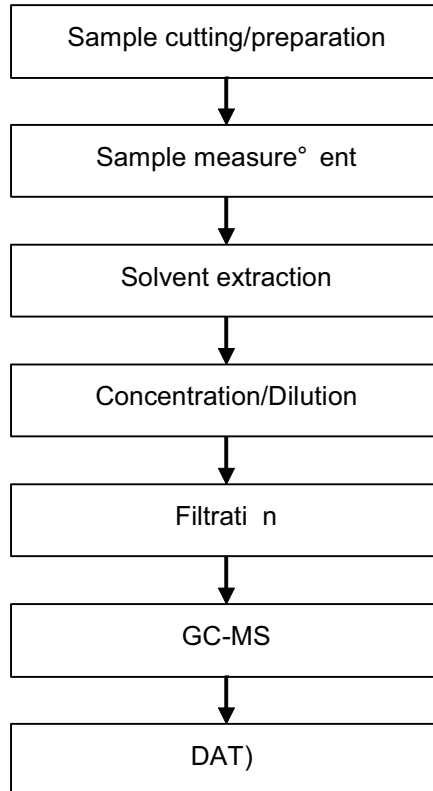
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Phthalates Testing Flow Chart

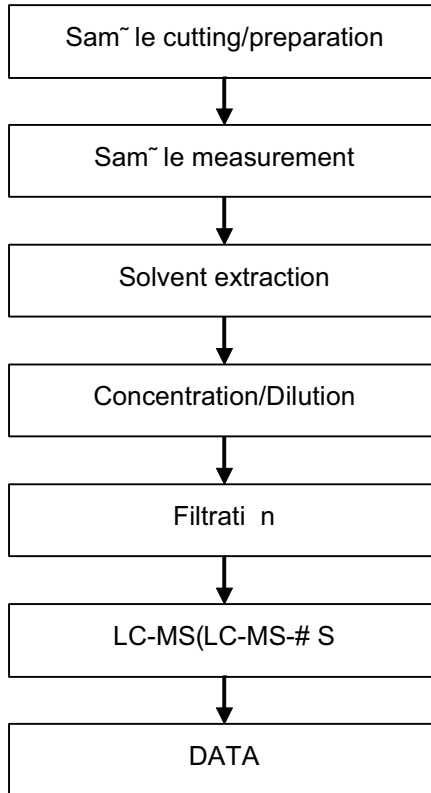


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PFASs/ PFOS/PFOA Testing Flow Chart

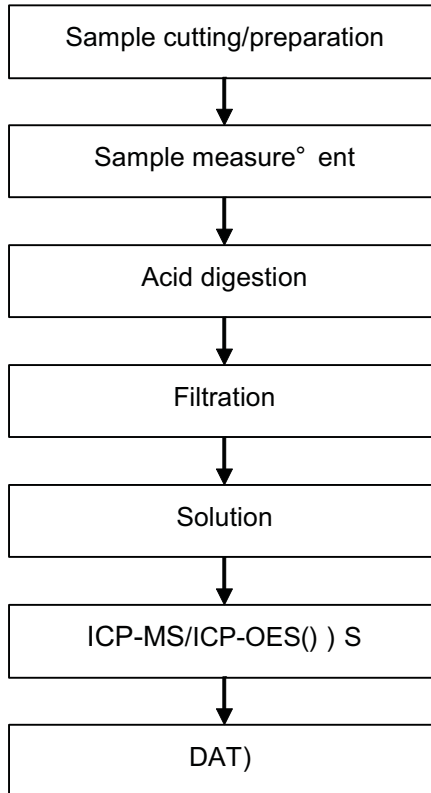


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Elements Testing Flow Chart



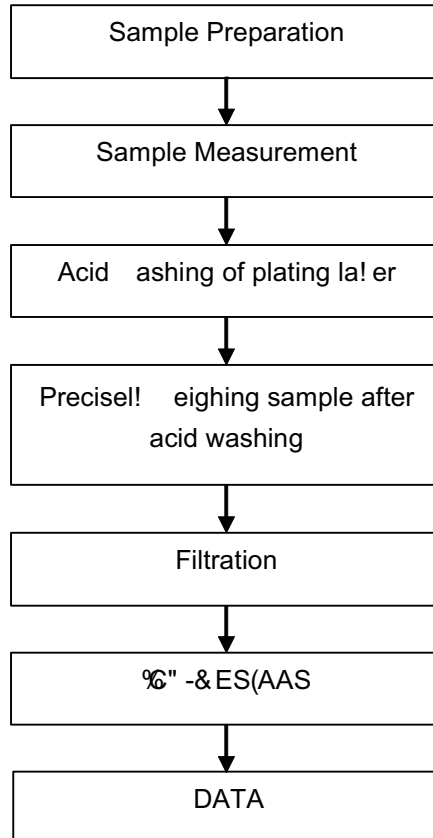
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Plating Pb/Cd/Hg Testing Flow Chart



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Sample photo:



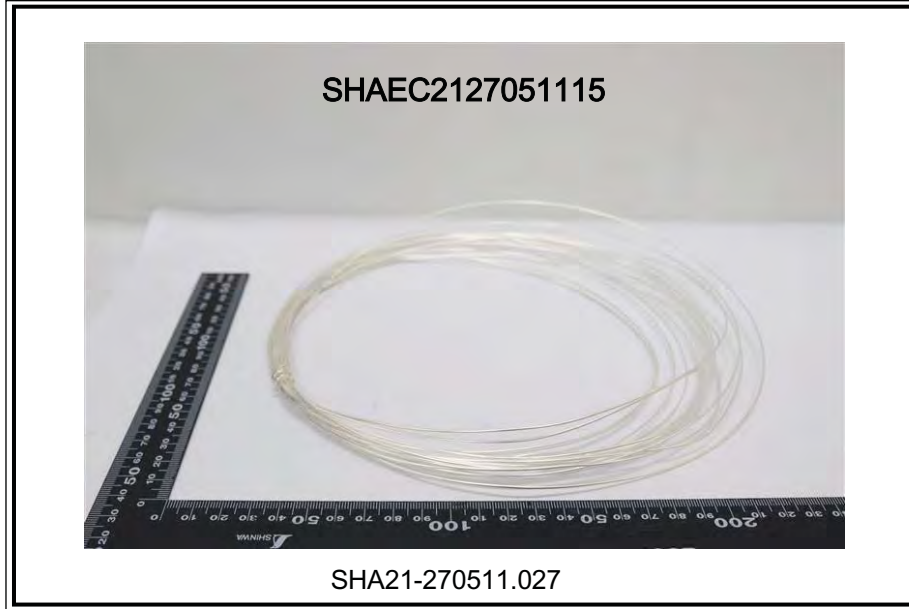
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*** End of Report ***



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CNAS L4305

Test Report

No. NGBML2200124301

Date: 27 Jan 2022

Page 1 of 14

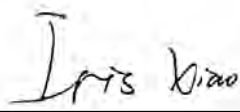
ZHEJIANG JUHUA CO.,LTD

JUHUA,KECHENG DISTRICT,QUZHOU CITY,ZHEJIANG PROVINCE,P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : FLUORINATED ETHYLENE-PROPYLENE COPOLYMER

SGS Job No. : NBIN2201000866PC - NB
 Client Ref. Information : FJP-T1,FJP-T2,FJP-T3,FJP-810,FJP-820,FJP-830,FJP-610,FJP-620,FJP-630,FJP-640
 Date of Sample Received : 21 Jan 2022
 Testing Period : 21 Jan 2022 - 27 Jan 2022
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).
 Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch


 Iris Xiao
 Approved Signatory



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No. NGBML2200124301

Date: 27 Jan 2022

Page 2 of 14

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|--------------------------|
| SN1 | NGB22-001243.001 | TRANSPARENT SOLID GRAINS |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit | MDL | 001 |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |



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No. NGBML2200124301

Date: 27 Jan 2022

Page 3 of 14

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|--------------|-------------|------------|------------|
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Di-butyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Bis(2-ethylhexyl) Phthalate(DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25.

(3) 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.

Element(s)

Test Method : With reference to US EPA Method 3052:1996, analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------------|-------------|------------|------------|
| Red Phosphor (As P) | mg/kg | 20 | ND |

Notes :

These tests are not accredited by CNAS.

Halogen

Test Method : With reference to EN 14582: 2016 , analysis was performed by IC.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------------|-------------|------------|------------|
| Fluorine (F) | mg/kg | 50 | >100000 |
| Chlorine (Cl) | mg/kg | 200 | ND |
| Bromine (Br) | mg/kg | 50 | ND |
| Iodine (I) | mg/kg | 50 | ND |



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CNAS L4305

Test Report

No. NGBML2200124301

Date: 27 Jan 2022

Page 4 of 14

Tetrabromobisphenol A (TBBP-A)

Test Method : With reference to US EPA 3540C: 1996, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--------------------------------|-------------|------------|------------|
| Tetrabromobisphenol A (TBBP-A) | mg/kg | 10 | ND |

Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---|-------------|------------|------------|
| Naphthalene(NAP) | mg/kg | 0.1 | ND |
| Phenanthrene(PHE) | mg/kg | 0.1 | ND |
| Anthracene(ANT) | mg/kg | 0.1 | ND |
| Fluoranthene(FLT) | mg/kg | 0.1 | ND |
| Pyrene(PYR) | mg/kg | 0.1 | ND |
| Benzo(a)anthracene(BaA) | mg/kg | 0.1 | ND |
| Chrysene(CHR) | mg/kg | 0.1 | ND |
| Benzo(b)fluoranthene(BbF) | mg/kg | 0.1 | ND |
| Benzo(j)fluoranthene(BjF) | mg/kg | 0.1 | ND |
| Benzo(k)fluoranthene(BkF) | mg/kg | 0.1 | ND |
| Benzo(a)pyrene(BaP) | mg/kg | 0.1 | ND |
| Benzo(e)pyrene(BeP) | mg/kg | 0.1 | ND |
| Indeno(1,2,3-c,d)pyrene(IPY) | mg/kg | 0.1 | ND |
| Dibenzo(a,h)anthracene(DBA) | mg/kg | 0.1 | ND |
| Benzo(g,h,i)perylene(BPE) | mg/kg | 0.1 | ND |
| Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene | mg/kg | - | ND |
| Sum of 15 PAHs | mg/kg | - | ND |



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AfPS (German commission for Product Safety) : GS PAHs requirements

| Parameter | Category 1 | Category 2 | | Category 3 | |
|---|---|---|------------------------------|----------------------------|------------------------------|
| | Materials, that are destined in ° outh closed or ° aterial in toys according to Directive 2009/48 EC or ° aterials in articles for use by children up to " years - ith longer ter° according to s. in contact (longer than 30s) at intended use | Materials not covered in category 1° - ith foreseeable contact to skin longer than 30 seconds (long-term skin contact) r repeated short ter° s. in contact at intended or foreseeable use | Used by Children /2) years0 | 3 ther Cons\$° er Products | Used by Children /2) years0 |
| Benzo(a)pyrene (BaP) ° g/kg | < 0!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Benzo(e)pyrene (BeP) ° g/kg | < 0!° | < 0!° | < 0°5 | 2 &°5 | < 1 |
| Benzo(a)anthracene (BaA) ° g/kg | 2 &!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Benzo(b)fluoranthene (BbF) ° g/kg | < 0!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Benzo(j)fluoranthene /° 8°0 ° g/kg | < 0!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Benzo(k)fluoranthene /° .70 ° g/kg | < 0!° | < &!° | < 0°5 | < 0°5 | < 1 |
| Chrysene (CHR) ° g/kg | < 0!° | < &!° | < 0°5 | < 0°5 | < 1 |
| Dibenzo(a,h)anthracene /° ~60 ° g/kg | < 0!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Benzo(g,h,i)perylene (BPE) ° g/kg | < 0!° | < 0!° | < 0°5 | < 0°5 | < 1 |
| Indeno(,2,3-cd)pyrene /; <0 ° g/kg | 2 &!° | < 0!° | 2 &°5 | < 0°5 | < 1 |
| Phenanthrene /,9+0 , pyrene /, <:0 , anthracene (ANT), fluoranthene /7° T° ° g/kg | < 1 S\$° | < 5 Su° | < 10 Sum | < 20 Su° | < 50 Sum |
| Naphthalene /° 6,0 ° g/kg | < 1 | < 2 | | < 10 | |
| Sum f 5,69 s | 21 | < 5 | < 10 | < 20 | < 50 |

Phthalates

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.



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TESTING
CNAS L4305

Test Report

No. NGBML2200124301

Date: 27 Jan 2022

Page 6 of 14

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------|---------------------------|-------------|------------|------------|
| Di-n-octyl Phthalate (DNOP) | 117-84-0 | % | 0.003 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0/68515 -49-1 | % | 0.01 | ND |
| Diisononyl Phthalate (DINP) | 28553-12-0/68515 -48-0 | % | 0.01 | ND |



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Ningbo Branch Chemical Laboratory

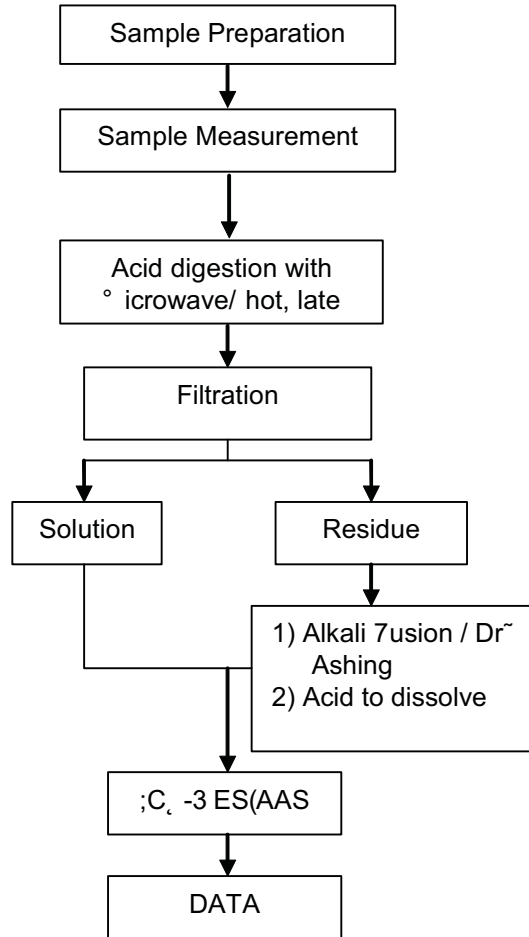
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中国·浙江·宁波高新区凌云路1177号 邮编: 315040 tHL (86-574)89070271 tML (86-574)89070242 sgs.china@sgs.com

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Elements (IEC62321) Testing Flow Chart

) These samples were dissolved totally ~ pre-conditioning method according to below chart.

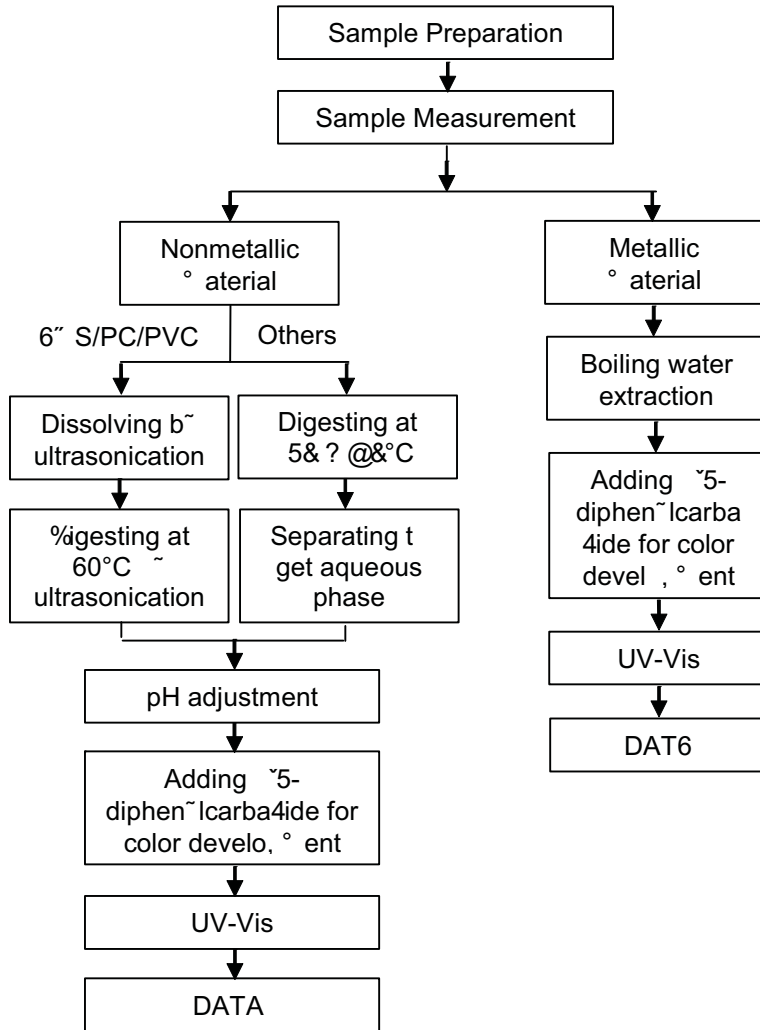


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

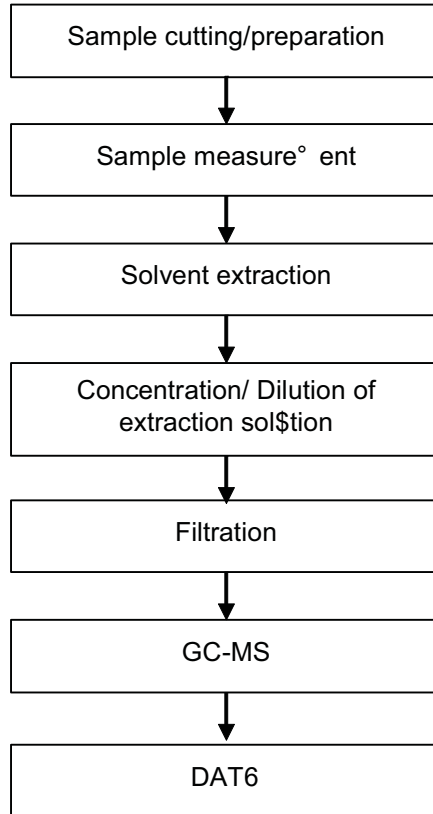


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PBBs/PBDEs Testing Flow Chart

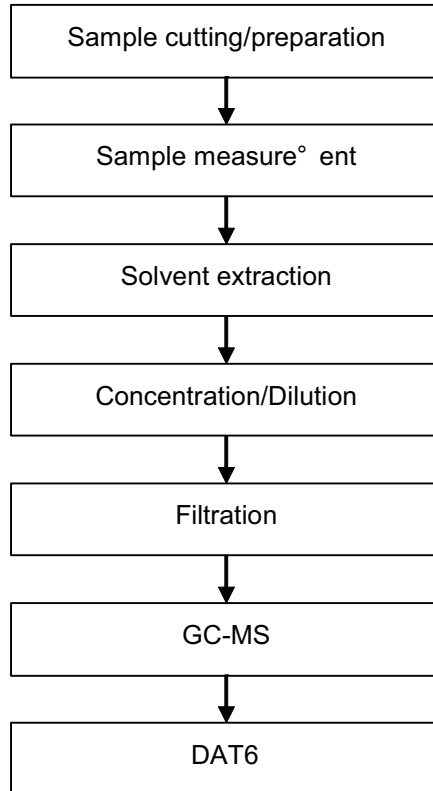


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Phthalates Testing Flow Chart

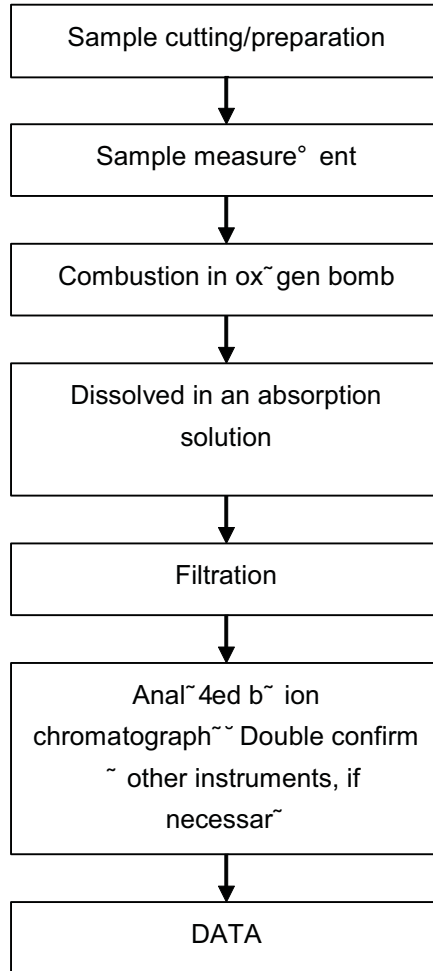


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Halogen Testing (oxygen bomb) Flow Chart

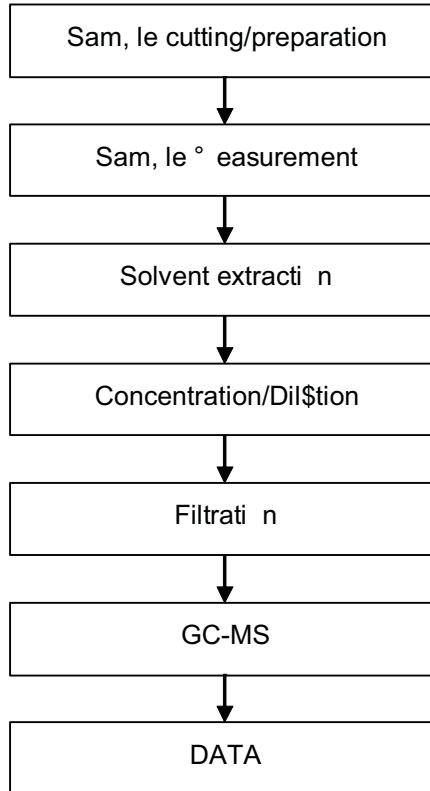


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PAHs Testing Flow Chart

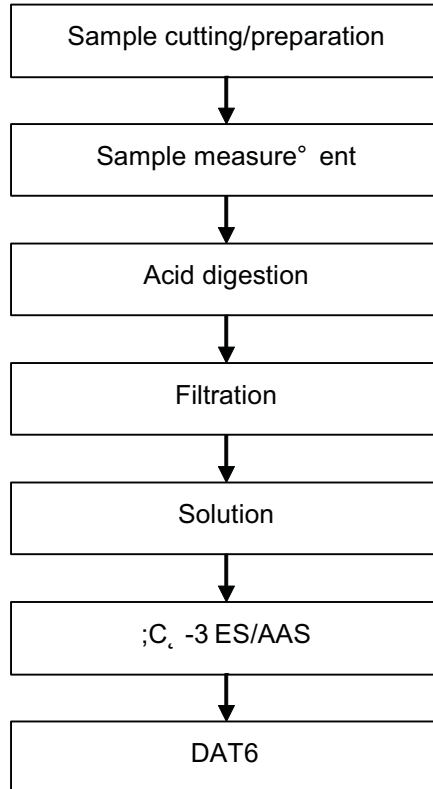


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Elements Testing Flow Chart



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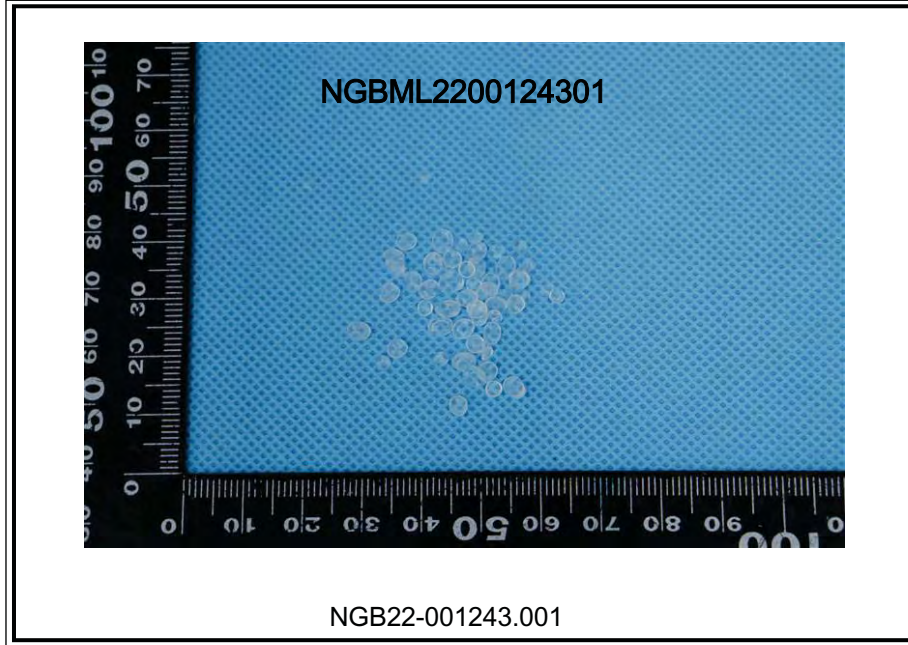
Test Report

No. NGBML2200124301

Date: 27 Jan 2022

Page 14 of 14

Sample photo:



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Test Report



Report No. A2220020280101002

Page 1 of 10

Company Name TAIZHOU DONGYUAN ELECTRONICS CO., LTD
shown on Report

Address NO.6,XUHE ROAD,GAOGANG DISTRICT,TAIZHOU CITY,JIANGSU PROVINCE

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

| Sample No. | Sample Name(s) | Material |
|------------|---------------------------------|----------------------|
| 001 | Silver plated copper clad steel | Iron. Copper. Silver |
| 002 | | |
| 003 | Silver plated copper clad steel | Iron. Copper. Silver |

Sample Received Date

Jan. 14, 2022

Testing Period

Jan. 14, 2022 to Jan. 20, 2022

Test Requested

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Beryllium(Be), Antimony(Sb), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

Test Method/Test Result(s)

Please refer to the following page(s).



Tested by

Li Zheng Su

Reviewed by

Chen Rui

Approved by

Chen Kaimin

Date

Jan. 20, 2022

Chen kaimin
Lab Manager

No. R475311912



Centre Testing International (Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

Test Report

Report No. A2220020280101002

Page 2 of 10

Test Method

| Tested Item(s) | Test Method | Measured Equipment(s) |
|--|--|-----------------------|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| | Refer to IEC 62321-5:2013 | |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| | Refer to IEC 62321-5:2013 | |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| | Refer to IEC 62321-4:2013+AMD1:2017 CSV | |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-1:2015 | UV-Vis |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |
| Beryllium(Be) | Refer to US EPA 3050B:1996 & US EPA 6010D:2018 | ICP-OES |
| Antimony(Sb) | Refer to US EPA 3050B:1996 & US EPA 6010D:2018 | ICP-OES |
| Perfluorooctane Sulfonates(PFOS) | Refer to US EPA 3550C:2007 & US EPA 8321B:2007 | LC-MS-MS/LC-MS |
| Perfluorooctanoic Acid(PFOA) | Refer to US EPA 3550C:2007 & US EPA 8321B:2007 | LC-MS-MS/LC-MS |
| Fluorine (F) | Refer to EN 14582:2016 | IC |
| Chlorine (Cl) | Refer to EN 14582:2016 | IC |
| Bromine (Br) | Refer to EN 14582:2016 | IC |
| Iodine (I) | Refer to EN 14582:2016 | IC |

Test Result(s)

| Tested Item(s) | Result | | | MDL |
|------------------------------|--------|----------|-------|-------------------------------|
| | 001 | 002 | 003 | |
| Lead (Pb) | N.D. | 12 mg/kg | N.D. | 2 mg/kg |
| Cadmium (Cd) | N.D. | N.D. | N.D. | 2 mg/kg |
| Mercury (Hg) | N.D. | N.D. | N.D. | 2 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D.▼ | N.D.▼ | N.D.▼ | 0.10 µg/cm ² (LOQ) |

Test Report

Report No. A2220020280101002

Page 3 of 10

| Tested Item(s) | Result | MDL |
|--|--------|---------|
| | 001 | |
| Polybrominated Biphenyls (PBBs) | | |
| Monobromobiphenyl | N.D. | 5 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg |
| Tribromobiphenyl | N.D. | 5 mg/kg |
| Tetrabromobiphenyl | N.D. | 5 mg/kg |
| Pentabromobiphenyl | N.D. | 5 mg/kg |
| Hexabromobiphenyl | N.D. | 5 mg/kg |
| Heptabromobiphenyl | N.D. | 5 mg/kg |
| Octabromobiphenyl | N.D. | 5 mg/kg |
| Nonabromobiphenyl | N.D. | 5 mg/kg |
| Decabromobiphenyl | N.D. | 5 mg/kg |

| Tested Item(s) | Result | MDL |
|---|--------|---------|
| | 001 | |
| Polybrominated Diphenyl Ethers (PBDEs) | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg |
| Tribromodiphenyl ether | N.D. | 5 mg/kg |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg |
| Octabromodiphenyl ether | N.D. | 5 mg/kg |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg |
| Decabromodiphenyl ether | N.D. | 5 mg/kg |

Test Report

Report No. A2220020280101002

Page 4 of 10

| Tested Item(s) | Result | | MDL |
|---|--------|--|----------|
| | 001 | | |
| Phthalates (DBP, BBP, DEHP, DIBP) | | | |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | | 50 mg/kg |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | | 50 mg/kg |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | | 50 mg/kg |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | | 50 mg/kg |

| Tested Item(s) | Result | | MDL |
|--|--------|------|---------|
| | 002 | 003 | |
| Polybrominated Biphenyls (PBBs) | | | |
| Monobromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Dibromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Tribromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Tetrabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Pentabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Hexabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Heptabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Octabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Nonabromobiphenyl | N.D. | N.D. | 5 mg/kg |
| Decabromobiphenyl | N.D. | N.D. | 5 mg/kg |

Test Report

Report No. A2220020280101002

Page 5 of 10

| Tested Item(s) | Result | | MDL |
|---|--------|------|---------|
| | 002 | 003 | |
| Polybrominated Diphenyl Ethers (PBDEs) | | | |
| Monobromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Dibromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Tribromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Tetrabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Pentabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Hexabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Heptabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Octabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Nonabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |
| Decabromodiphenyl ether | N.D. | N.D. | 5 mg/kg |

| Tested Item(s) | Result | | MDL |
|---|--------|------|----------|
| | 002 | 003 | |
| Phthalates (DBP, BBP, DEHP, DIBP) | | | |
| Dibutyl phthalate (DBP) CAS#:84-74-2 | N.D. | N.D. | 50 mg/kg |
| Butyl benzyl phthalate (BBP) CAS#:85-68-7 | N.D. | N.D. | 50 mg/kg |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7 | N.D. | N.D. | 50 mg/kg |
| Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | N.D. | 50 mg/kg |

| Tested Item(s) | Result | MDL |
|----------------|--------|----------|
| | 003 | |
| Beryllium (Be) | N.D. | 10 mg/kg |

| Tested Item(s) | Result | MDL |
|----------------|--------|----------|
| | 003 | |
| Antimony (Sb) | N.D. | 10 mg/kg |

Test Report

Report No. A2220020280101002

Page 6 of 10

| Tested Item(s) | Result | MDL |
|-----------------------------------|--------|-----------------------|
| | 003 | |
| Perfluorooctane Sulfonates (PFOS) | N.D. | 0.5 µg/m ² |

| Tested Item(s) | Result | MDL |
|-------------------------------|--------|-----------------------|
| | 003 | |
| Perfluorooctanoic Acid (PFOA) | N.D. | 0.5 µg/m ² |

| Tested Item(s) | Result | MDL |
|----------------|--------|----------|
| | 003 | |
| Fluorine (F) | N.D. | 50 mg/kg |
| Chlorine (Cl) | N.D. | 50 mg/kg |
| Bromine (Br) | N.D. | 50 mg/kg |
| Iodine (I) | N.D. | 50 mg/kg |

Sample/Part Description

- 001 Metal base
- 002 Cupreous plating
- 003 Silver-white plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium, Antimony.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²

-▼ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating.

Test Report

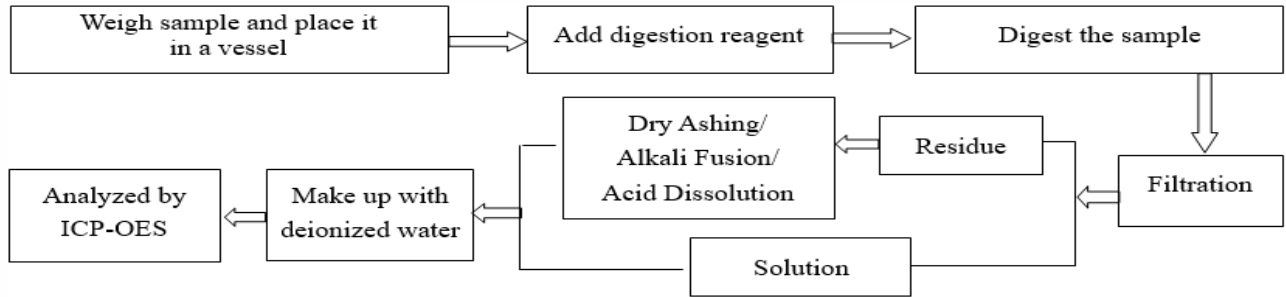
Report No. A2220020280101002

Page 7 of 10

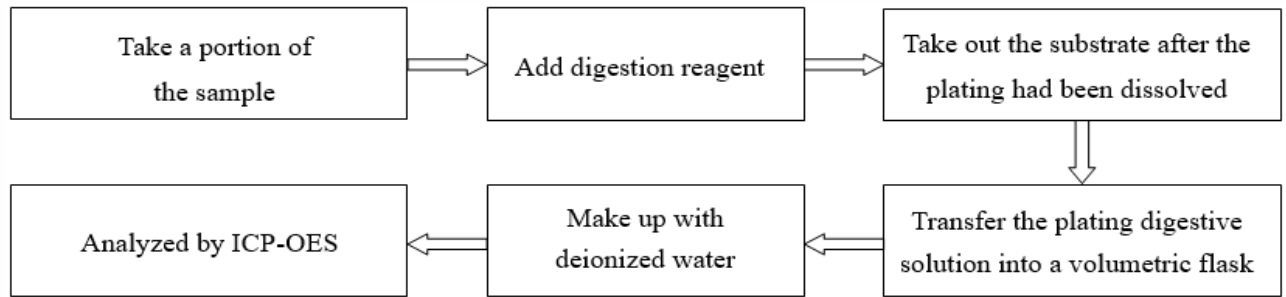
Test Process

1. Lead (Pb), Cadmium (Cd)

(1) IEC 62321-5:2013

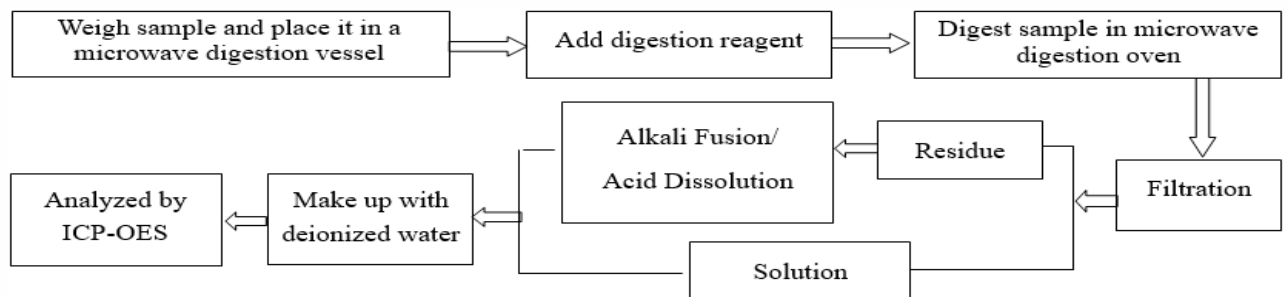


(2) Refer to IEC 62321-5:2013

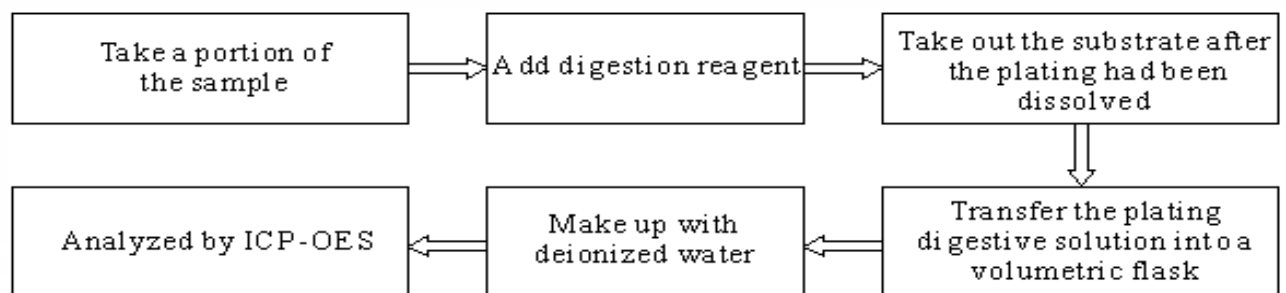


2. Mercury (Hg)

(1) IEC 62321-4:2013+AMD1:2017 CSV



(2) Refer to IEC 62321-4:2013+AMD1:2017 CSV

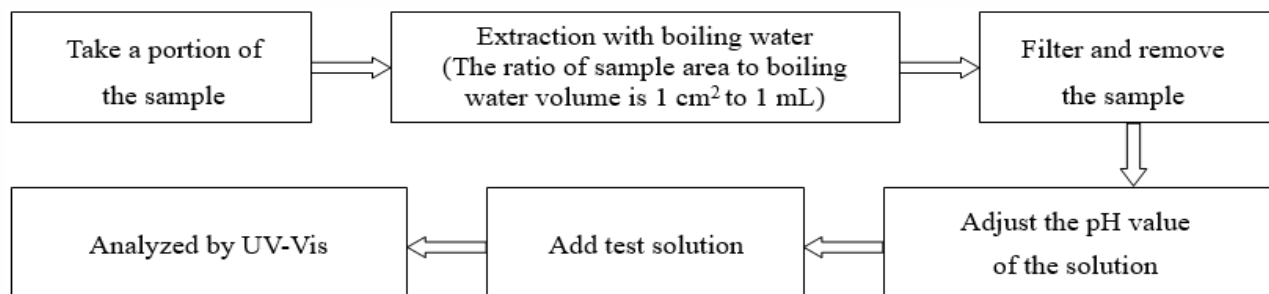


Test Report

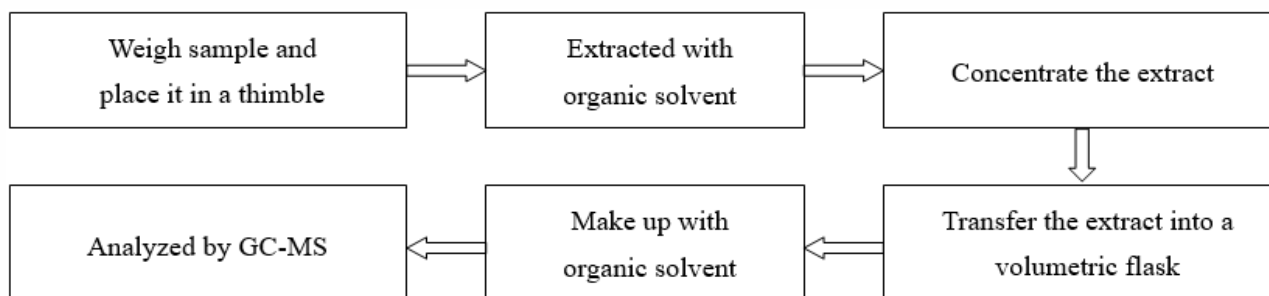
Report No. A2220020280101002

Page 8 of 10

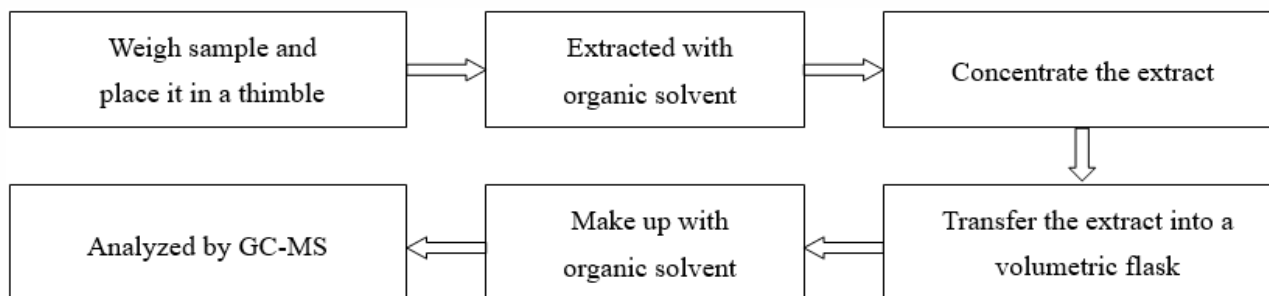
3. Hexavalent Chromium (Cr(VI))



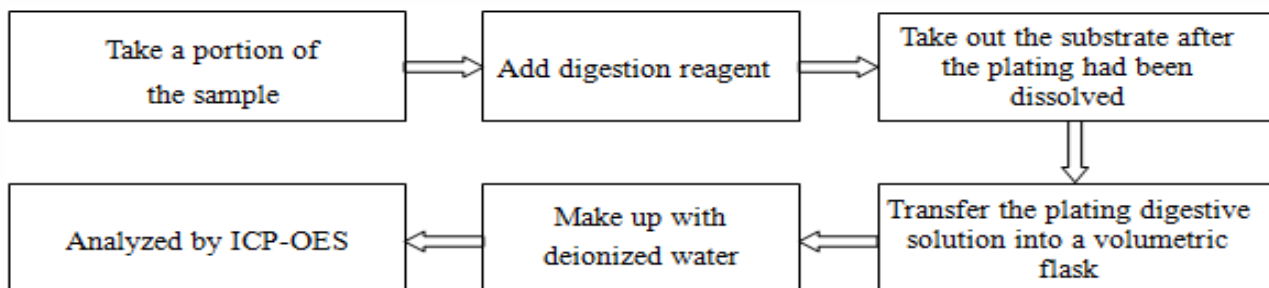
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Beryllium(Be), Antimony(Sb)

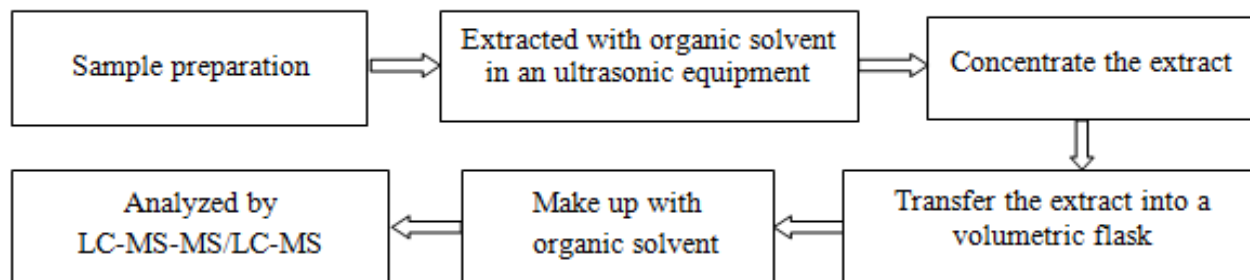


Test Report

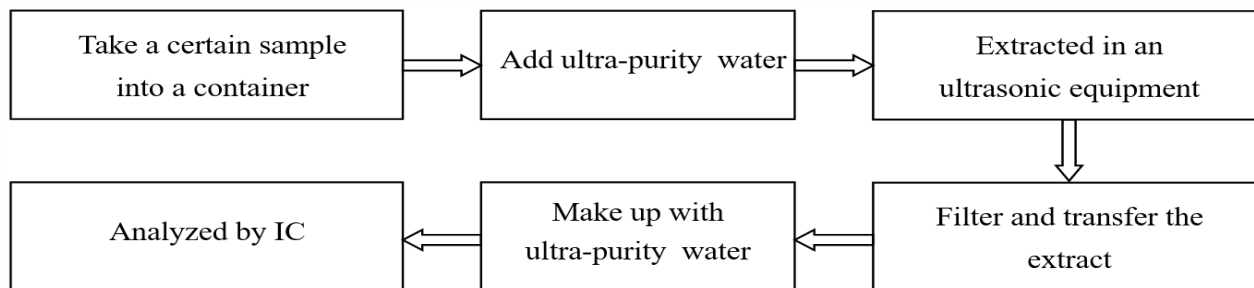
Report No. A2220020280101002

Page 9 of 10

7. Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA)



8. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



Test Report

Report No. A2220020280101002

Page 10 of 10

Photo(s) of the sample(s)

001,002



003



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***

Test Report

No. CANEC2110983505

Date: 26 Jun 2021

Page 1 of 4

SHANTOU XINYANG METAL PRODUCTS CO., LTD

XIANGDI JINGTOU VILLAGE, JINZAO TOWN, CHAOYANG DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BRASS C3604

SGS Job No. : CP21-031672 - GZ
Date of Sample Received : 18 Jun 2021
Testing Period : 18 Jun 2021 - 25 Jun 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen

Allie Chen
Approved Signatory

scan to see the report



CANEC2110983505



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1 (86-20) 82155555 www.sgs.com

1 (86-20) 82155555 sgs.china@sgs.com

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|--------------|
| SN1 | CAN21-109835.001 | Brassy metal |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

| Test Item(s) | Limit | Unit | MDL | 001 |
|-------------------------------|-------|--------------------|------|--------|
| Cadmium (Cd) | 100 | mg/kg | 2 | 18 |
| Lead (Pb) | 1,000 | mg/kg | 2 | 28696▲ |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Remark▲: According to the declaration from the client, Lead (Pb) in specimen is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.

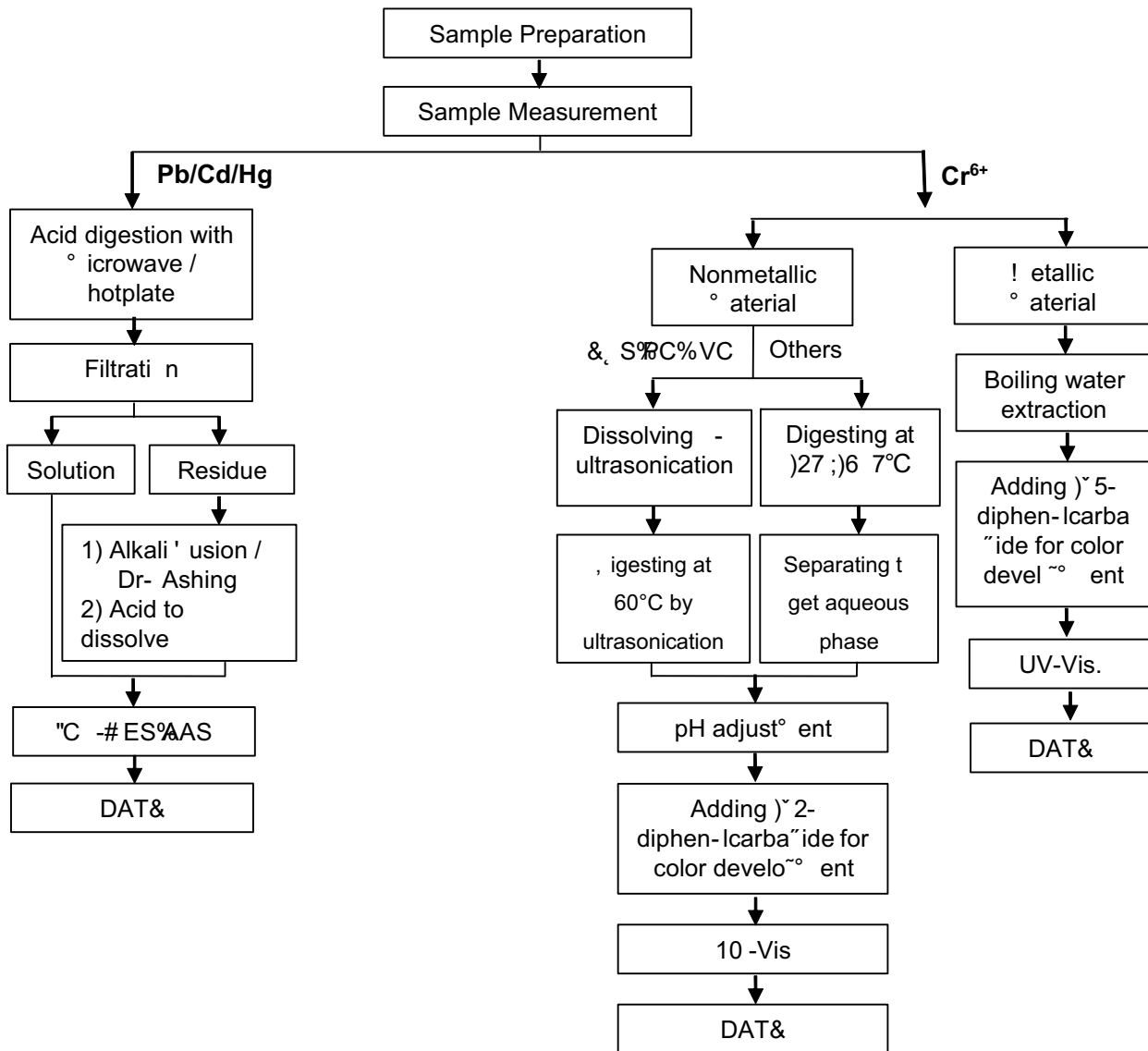


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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded).

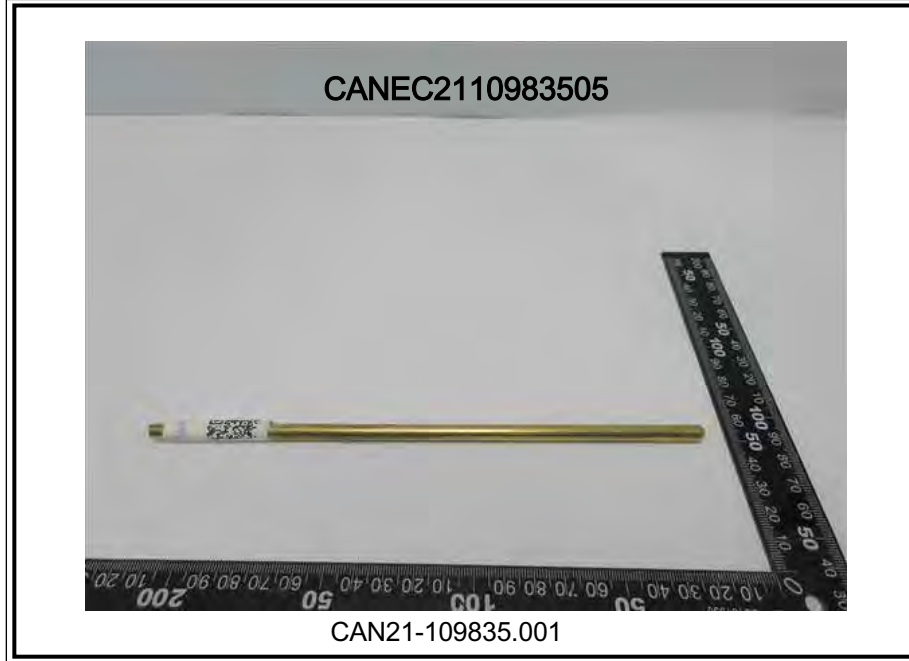


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Sample photo:



SGS authenticate the photo on original report only

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Test Report

No. SHAEC2118528401

Date: 30 Aug 2021

Page 1 of 8

ZHENJIANG SHENGKEDA ELECTRONICS CO,LTD
XINQI VILLAGE, XINFENG TOWN, DANTU DISTRICT, ZHENJIANG CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : PTFE ROD

SGS Job No. : SP21-027264 - SH
Client Ref. Information : PTFE INSULATPOR
Date of Sample Received : 26 Aug 2021
Testing Period : 26 Aug 2021 - 30 Aug 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Sheng

Sue Sheng
Approved Signatory

scan to see the report



SHAEC2118528401



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Test Report

No. SHAEC2118528401

Date: 30 Aug 2021

Page 2 of 8

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------|
| SN1 | SHA21-185284.001 | White solid |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit | MDL | 001 |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. SHAEC2118528401

Date: 30 Aug 2021

Page 3 of 8

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|--------------|-------------|------------|------------|
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Di-butyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (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.



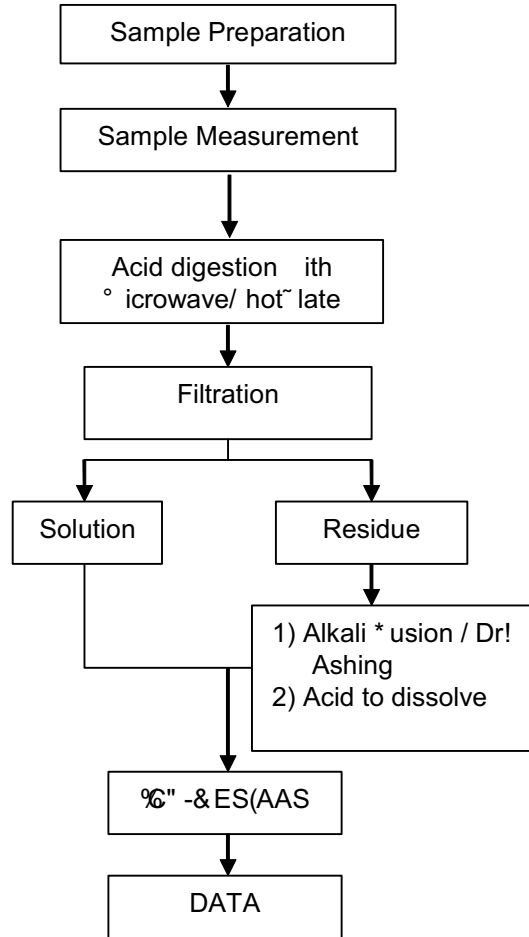
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally! ! pre-conditioning method according to below flow chart.



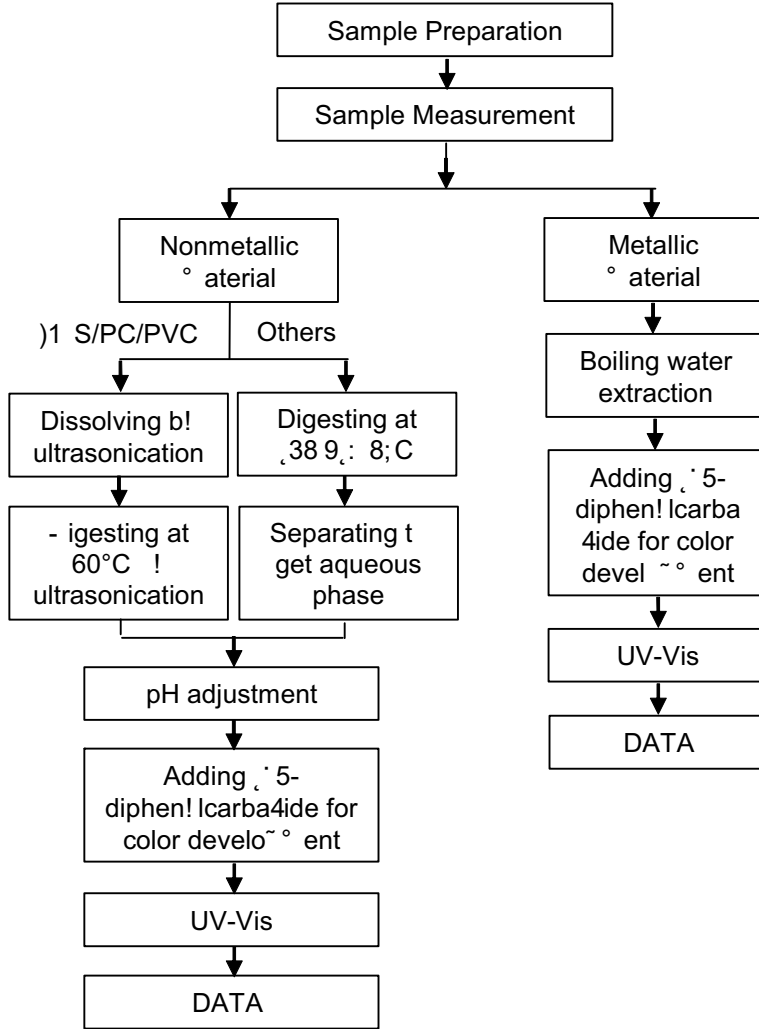
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



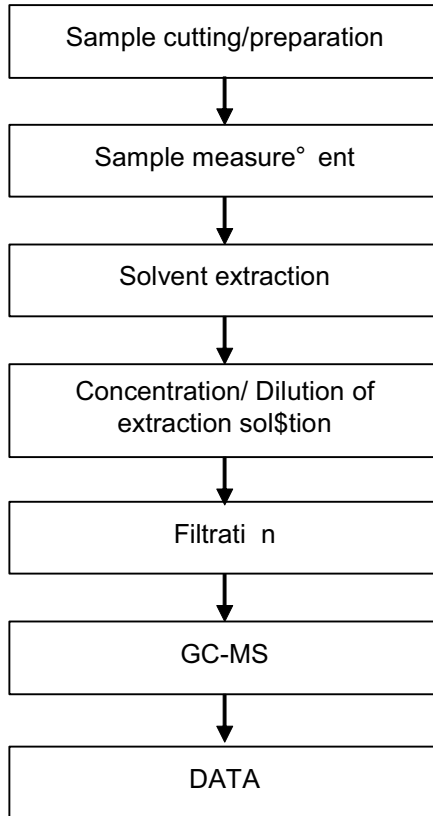
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ATTACHMENTS

PBBs/PBDEs Testing Flow Chart



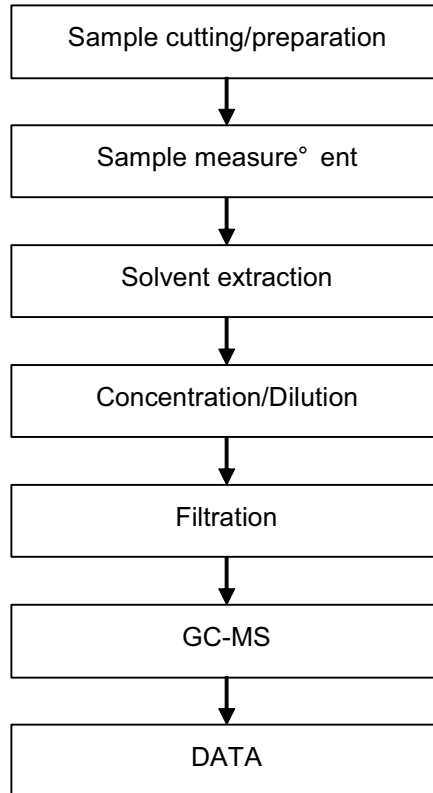
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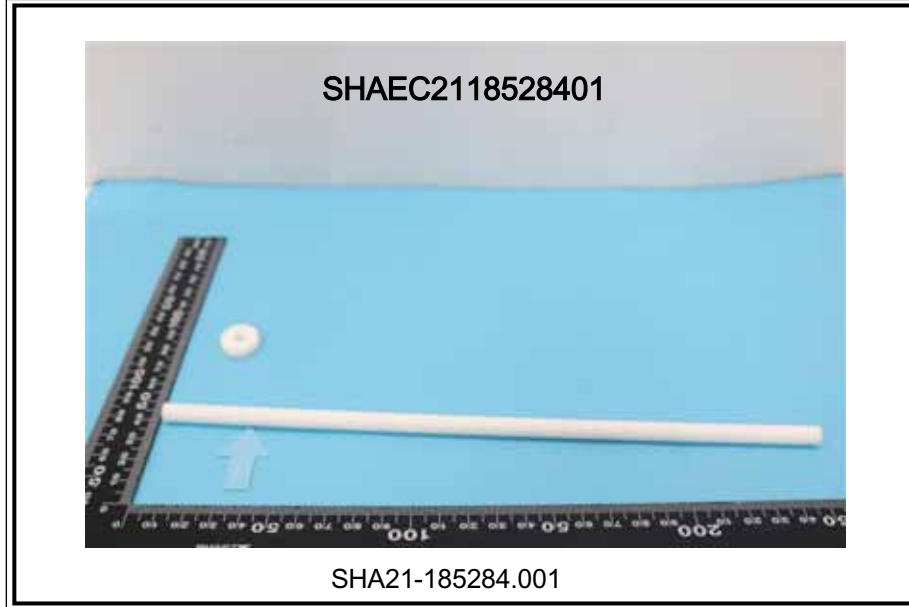
Phthalates Testing Flow Chart



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Sample photo:



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Test Report

No. SZXEC2103405301

Date: 12 Nov 2021

Page 1 of 6

SHENZHEN ZHICHENG INDUSTRIAL CO.,LTD.ZHICHENG PLASTIC HARDWARE PRODUCTS FACTORY
NO.2,FIVE LANES,XINSHA INDUSTRIAL ZONE,BILING COMMUNITY,PINGSHAN STREET,PINGSHAN
DISTRICT,SHENZHEN

The following sample(s) was/were submitted and identified on behalf of the clients as : Gold plating (in Chinese as镀金层)

SGS Job No. : RP21-026189 - SZ

Date of Sample Received : 04 Nov 2021

Testing Period : 04 Nov 2021 - 12 Nov 2021

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



Ford Shi
Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------------|
| SN1 | SZX21-034053.001 | Gold plated metal |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------------|--------------|--------------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | 24 |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. SZXEC2103405301

Date: 12 Nov 2021

Page 3 of 6

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) ▽= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

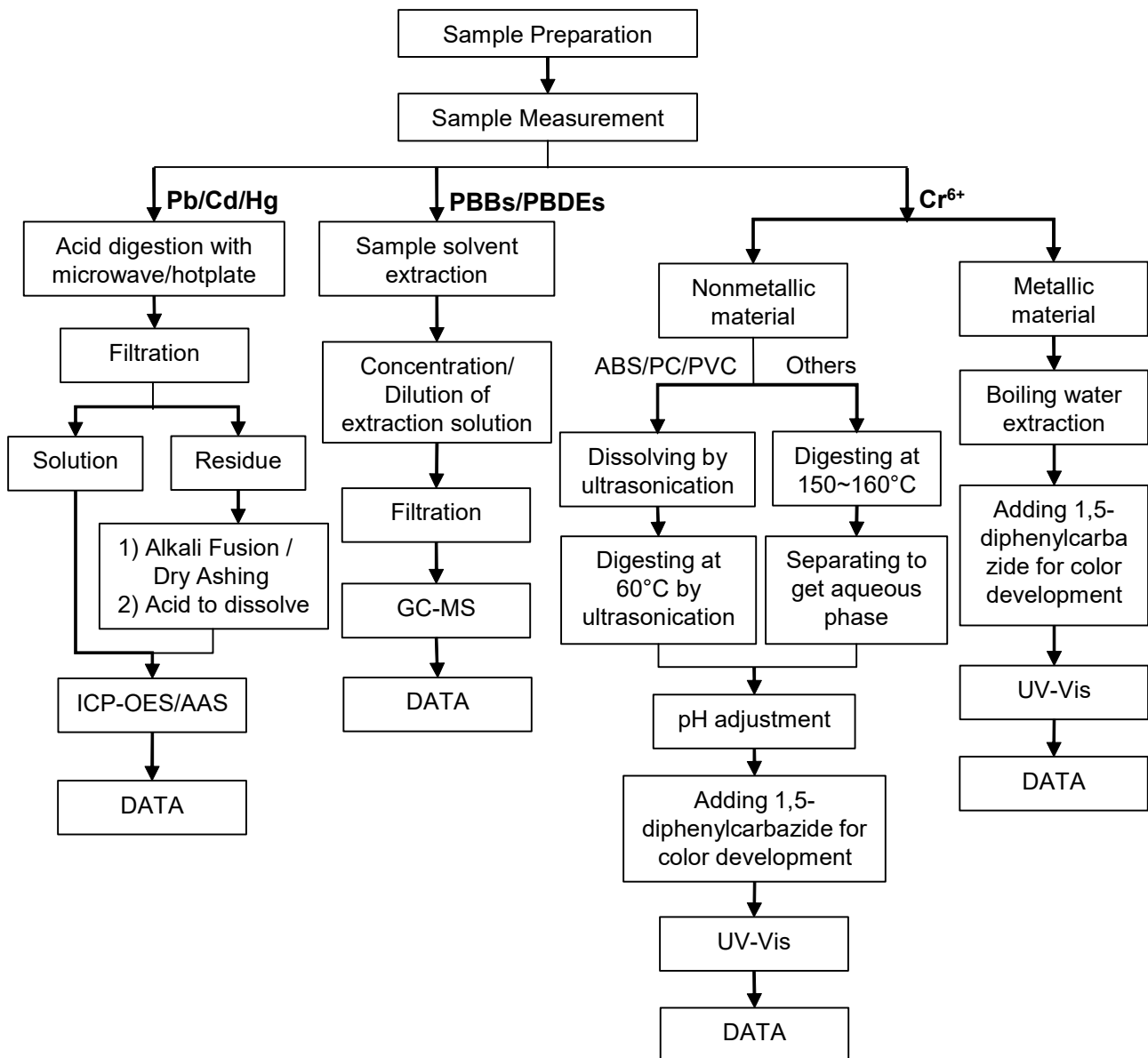


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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



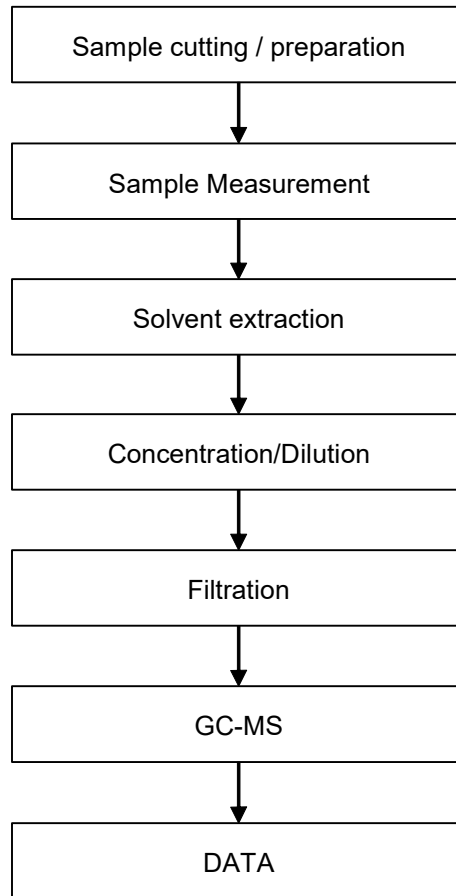
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Phthalates Testing Flow Chart

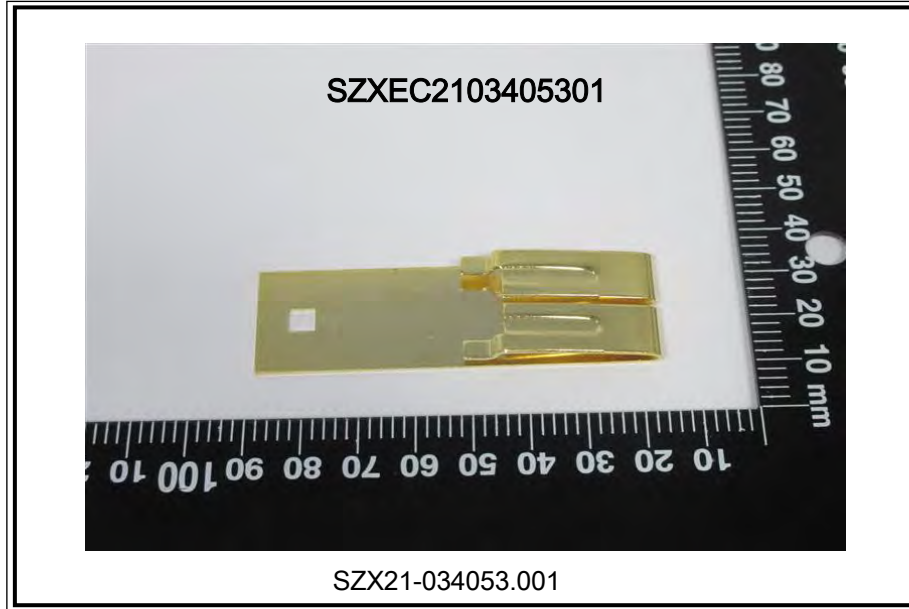


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Test Report

No. SZXEC2103405307

Date: 12 Nov 2021

Page 1 of 6

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NO.2,FIVE LANES,XINSHA INDUSTRIAL ZONE,BILING COMMUNITY,PINGSHAN STREET,PINGSHAN
DISTRICT,SHENZHEN

The following sample(s) was/were submitted and identified on behalf of the clients as : Nickel plating (in Chinese as 镀镍层)

SGS Job No. : RP21-026189 - SZ
Date of Sample Received : 04 Nov 2021
Testing Period : 04 Nov 2021 - 12 Nov 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



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Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|--------------------------|
| SN1 | SZX21-034053.003 | Silver-gray plated metal |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit | MDL | 003 |
|-------------------------------|-------|--------------------|------|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | 28 |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 0.10 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. SZXEC2103405307

Date: 12 Nov 2021

Page 3 of 6

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> |
|------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) ▽= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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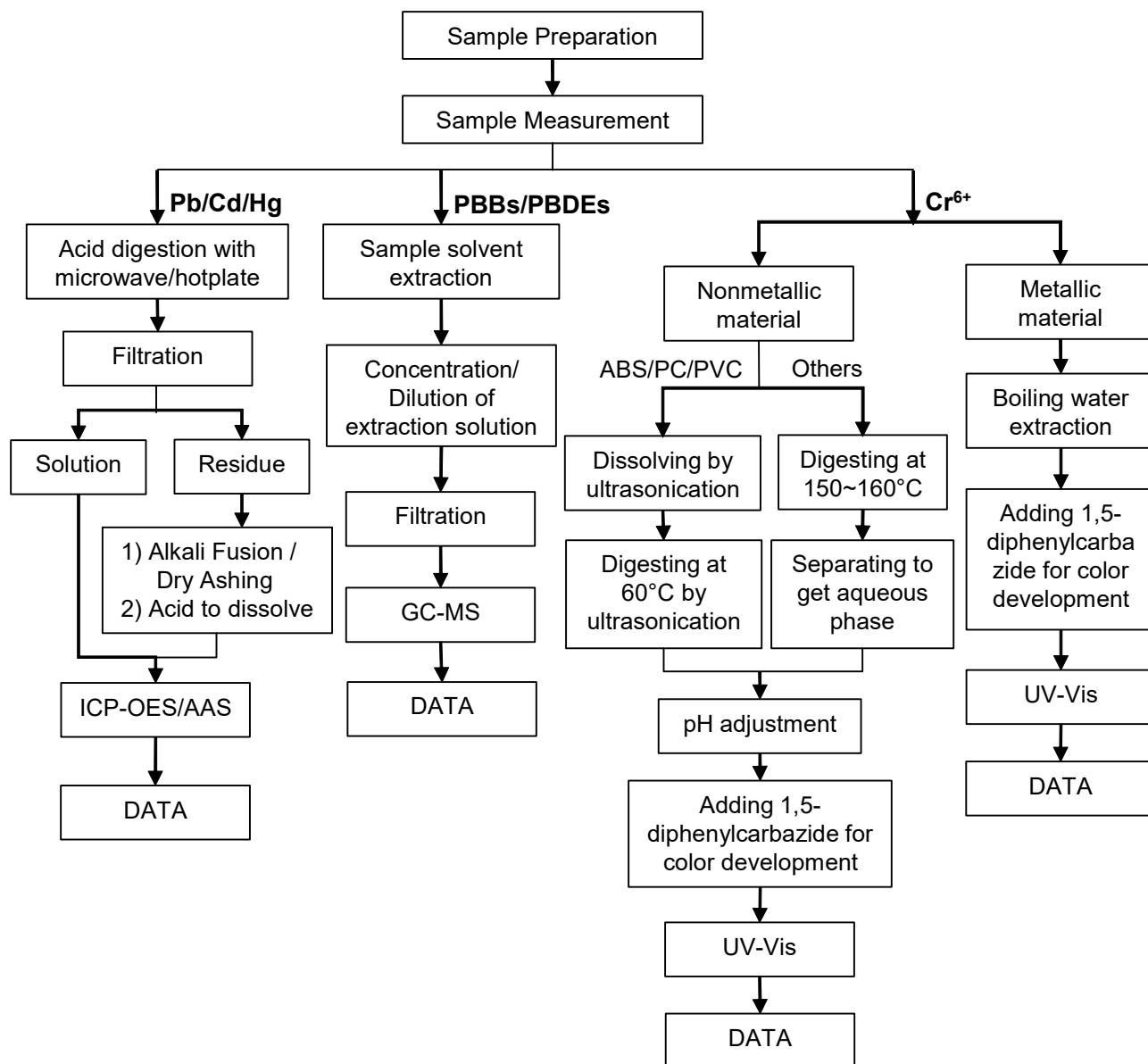
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



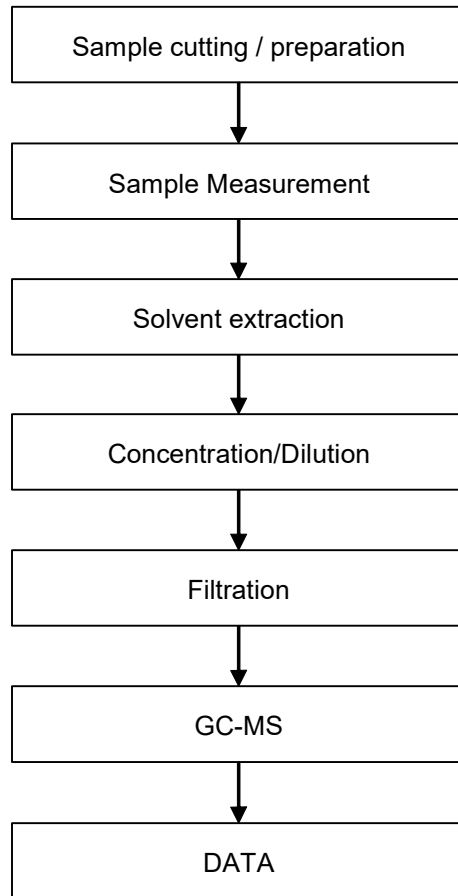
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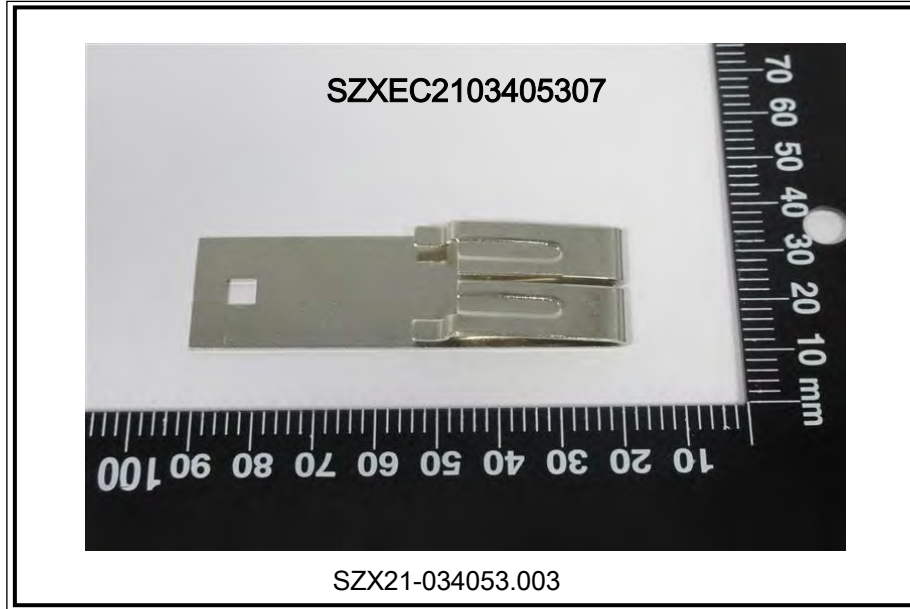
Phthalates Testing Flow Chart



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Sample photo:



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Test Report

No. CANEC2103066123

Date: 15 Mar 2021

Page 1 of 6

SHENZHEN TAIKE TECHNOLOGY CO.,LTD
QIPING INDUSTRIAL ZONE, GUANLAN TOWN,SHENZHEN

The following sample(s) was/were submitted and identified on behalf of the clients as : Silicone rubber masterbatch

SGS Job No. : CP21-008519 - SZ
Client Ref. Info. : Used for 1109A 1109AH 1105 1141 1141H 1102 、 1103、
1104、 1105、 1106、 1107、 1110、 1111 1112 1113
Date of Sample Received : 05 Mar 2021
Testing Period : 05 Mar 2021 - 11 Mar 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Dongyu Xie
Approved Signatory

scan to see the report



CANEC2103066123



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Test Report

No. CANEC2103066123

Date: 15 Mar 2021

Page 2 of 6

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------|
| SN1 | CAN21-030661.037 | Red paste |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>037</u> |
|----------------------------|--------------|-------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. CANEC2103066123

Date: 15 Mar 2021

Page 3 of 6

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>037</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl phthalate (DBP) | 1,000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1,000 | mg/kg | 50 | ND |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1,000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1,000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) 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.



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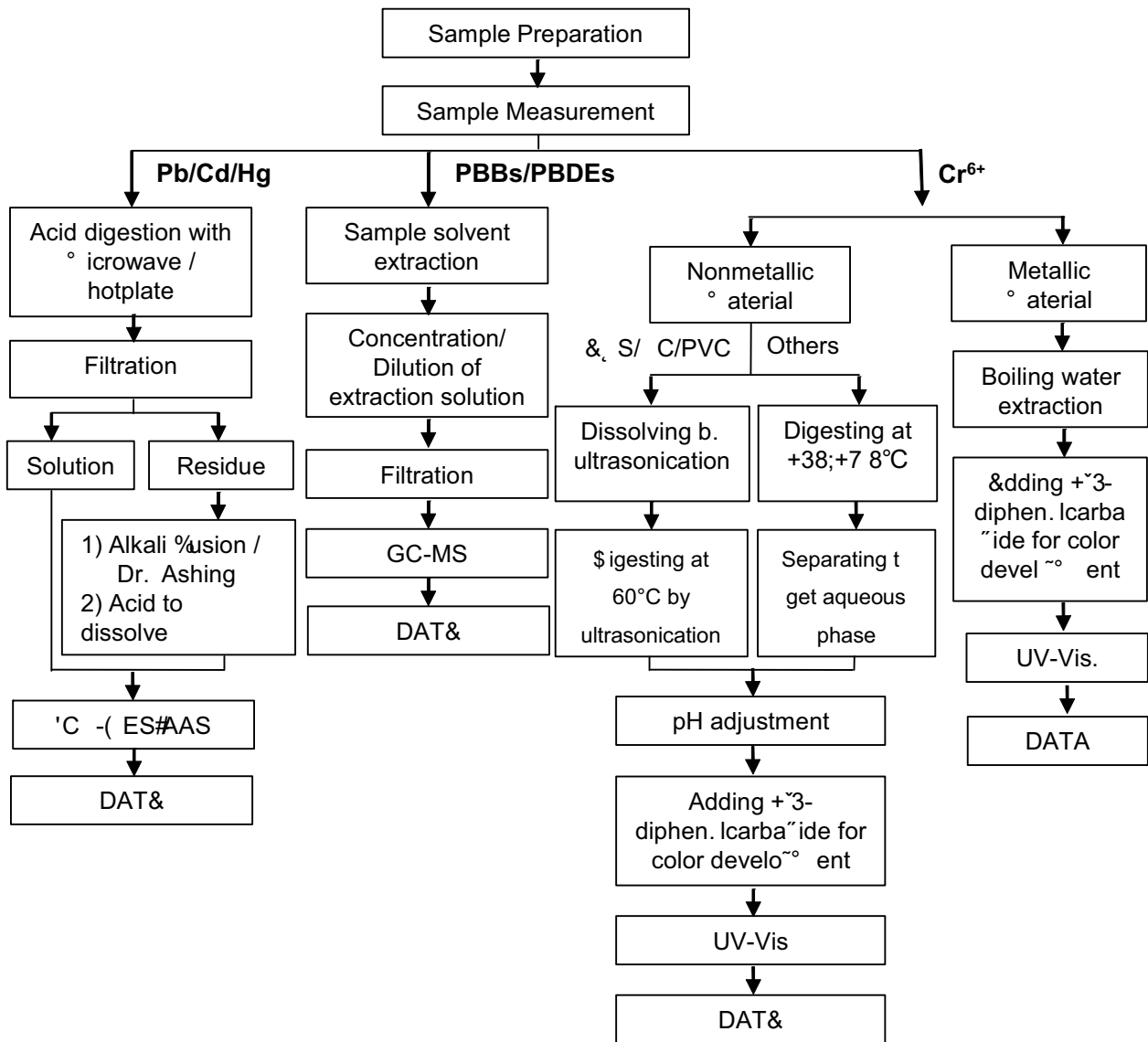
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).

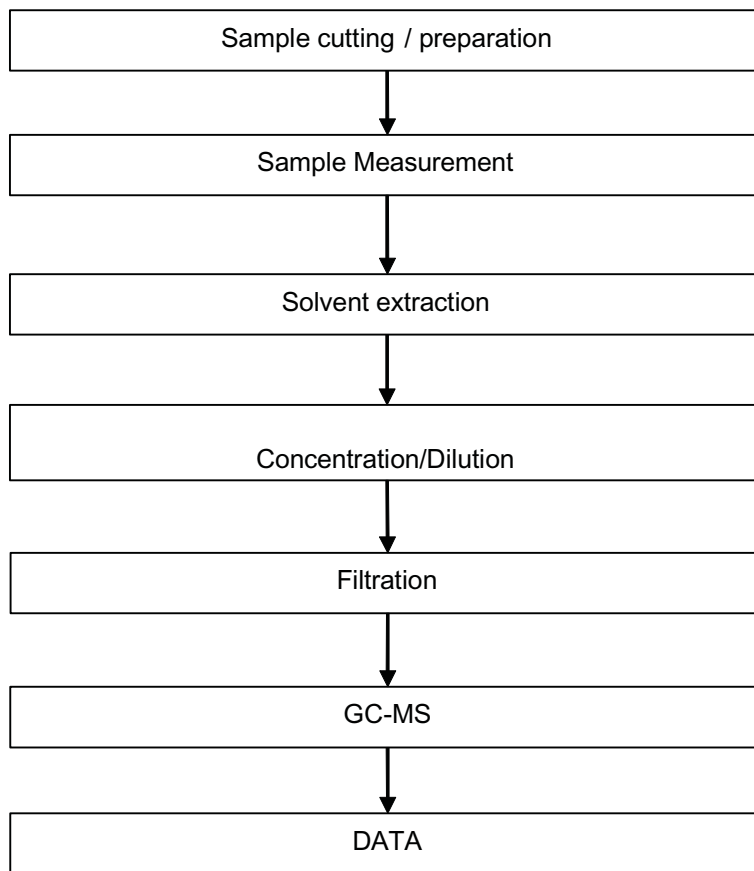


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Phthalates Testing Flow Chart



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180000343904

Test Report



Report No. A2210204804101001

Company Name WHA YU INDUSTRIAL CO.,LTD
shown on Report
Address NO.326,SEC.2,KUNG TAO 5 ROAD, HSIN-CHU CITY, TAIWAN,R.O.C

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name SABIC EXLPC 9330,White
Part No. PC9330
Sample Received Date May 29, 2021
Testing Period May 29, 2021 to Jun. 2, 2021

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Conclusion

| Tested Sample | According to standard/directive | Result |
|------------------|--|--------|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS |

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Grace Sun

Hill Zheng

Hill Zheng
Technical Manager

Reviewed by

Helen Liu

Date

Jun. 2, 2021

No. R179751920

Test Report

Report No. A2210204804101001

Page 2 of 7

Test Method

| Test Item(s) | Test Method | Measured Equipment(s) |
|--|---|-----------------------|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |

Test Report

Report No. A2210204804101001

Page 3 of 7

Test Result(s)

| Tested Item(s) | Result | MDL | Limit |
|---|--------|---------|------------|
| Lead(Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| Cadmium(Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| Mercury(Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium(Cr(VI)) | N.D. | 8 mg/kg | 1000 mg/kg |
| Tested Item(s) | Result | MDL | Limit |
| Polybrominated Biphenyls (PBBs) | | | |
| Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg | |
| Tribromobiphenyl | N.D. | 5 mg/kg | |
| Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| Pentabromobiphenyl | N.D. | 5 mg/kg | |
| Hexabromobiphenyl | N.D. | 5 mg/kg | |
| Heptabromobiphenyl | N.D. | 5 mg/kg | |
| Octabromobiphenyl | N.D. | 5 mg/kg | |
| Nonabromobiphenyl | N.D. | 5 mg/kg | |
| Decabromobiphenyl | N.D. | 5 mg/kg | |
| Tested Item(s) | Result | MDL | Limit |
| Polybrominated Diphenyl Ethers (PBDEs) | | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| Decabromodiphenyl ether | N.D. | 5 mg/kg | |

Test Report

Report No. A2210204804101001

Page 4 of 7

Test Result(s)

| Tested Item(s) | Result | MDL | Limit |
|--|--------|----------|------------|
| Phthalates (DBP, BBP, DEHP, DIBP) | | | |
| Dibutyl phthalate(DBP) CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate(BBP) CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate(DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |

Sample/Part Description White plastic grains**Remark:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

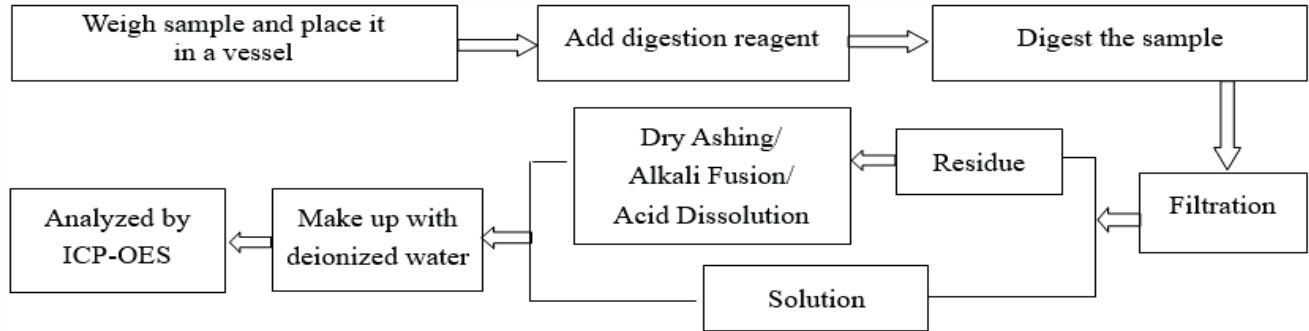
Test Report

Report No. A2210204804101001

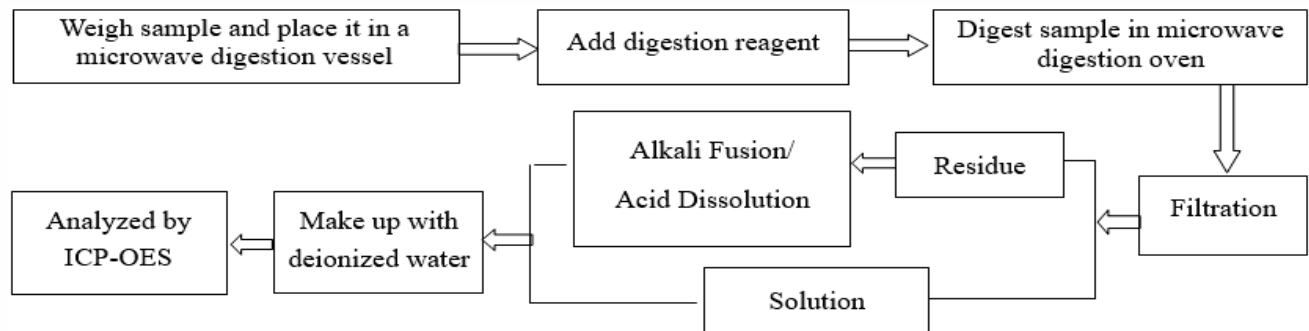
Page 5 of 7

Test Process

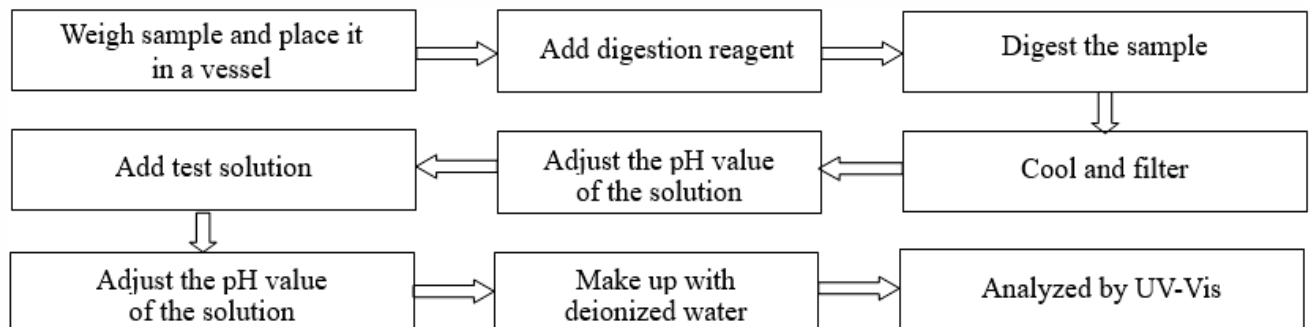
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



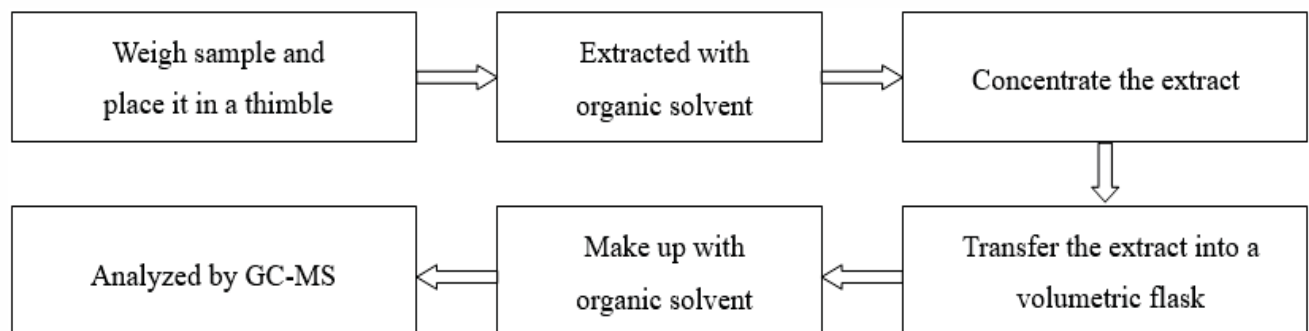
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

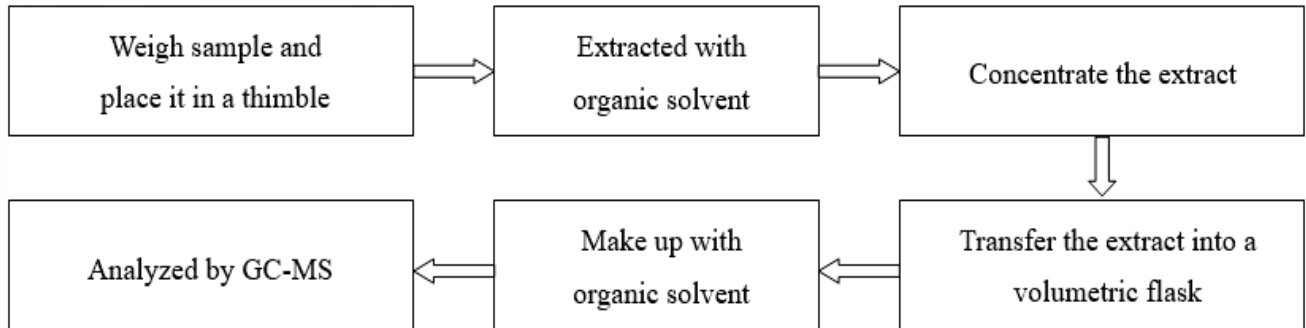


Test Report

Report No. A2210204804101001

Page 6 of 7

5. Phthalates (DBP, BBP, DEHP, DIBP)



Test Report

Report No. A2210204804101001

Page 7 of 7

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
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*** End of report ***

Test Report

No. CANEC2103944807

Date: 26 Mar 2021

Page 1 of 11

SHENGYI TECHNOLOGY CO., LTD.

5 WESTERN INDUSTRY ROAD, SONGSHAN LAKE, DONGGUAN CITY, GUANGDONG, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Copper Clad Laminate

SGS Job No. : CP21-011310 - GZ

Model No. : LNB33

Date of Sample Received : 18 Mar 2021

Testing Period : 18 Mar 2021 - 26 Mar 2021

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessie Li

Jessie Li
Approved Signatory



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Test Report

No. CANEC2103944807

Date: 26 Mar 2021

Page 2 of 11

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|----------------------------------|
| SN1 | CAN21-039448.005 | Double-side copper-clad laminate |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

| Test Item(s) | Limit | Unit | MDL | 005 |
|----------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |



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No. CANEC2103944807

Date: 26 Mar 2021

Page 3 of 11

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl phthalate (DBP) | 1,000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1,000 | mg/kg | 50 | ND |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1,000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1,000 | mg/kg | 50 | ND |

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(3) 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.

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to EPA 3052:1996), analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|---------------------|-------------|------------|------------|
| Antimony (Sb) | mg/kg | 10 | ND |
| Beryllium (Be) | mg/kg | 5 | ND |

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|------------------------------------|----------------------------|-------------|------------|------------|
| Dibutyl Phthalate (DBP) | 84-74-2 | %(w/w) | 0.003 | ND |
| Benzylbutyl Phthalate (BBP) | 85-68-7 | %(w/w) | 0.003 | ND |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | %(w/w) | 0.003 | ND |
| Diisononyl Phthalate (DINP) | 28553-12-0 / 68515-48-0 | %(w/w) | 0.010 | ND |



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No. CANEC2103944807

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Page 4 of 11

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|---|----------------------------|-------------|------------|------------|
| Di-n-octyl Phthalate (DNOP) | 117-84-0 | %(w/w) | 0.003 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0 / 68515-49-1 | %(w/w) | 0.010 | ND |
| Di-n-hexyl Phthalate (DnHP) | 84-75-3 | %(w/w) | 0.003 | ND |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | %(w/w) | 0.003 | ND |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | %(w/w) | 0.010 | ND |
| Bis(2-methoxyethyl) Phthalate (DMEP) | 117-82-8 | %(w/w) | 0.003 | ND |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | %(w/w) | 0.010 | ND |
| Diisopentyl Phthalate (DIPP) | 605-50-5 | %(w/w) | 0.003 | ND |
| n-pentyl Isopentyl Phthalate (nPIPP) | 776297-69-9 | %(w/w) | 0.003 | ND |
| 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) | 84777-06-0 | %(w/w) | 0.010 | ND |
| Dipentyl Phthalates (DPENP/DnPP) | 131-18-0 | %(w/w) | 0.003 | ND |
| 1,2-Benzenedicarboxylic acid, dihexyl ester branched and linear(DHP) | 68515-50-4 | %(w/w) | 0.010 | ND |
| Dimethyl Phthalate (DMP) | 131-11-3 | %(w/w) | 0.003 | ND |

Notes :

(1) DBP, BBP, DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

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Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|---|----------------|-------------|------------|------------|
| Perfluorooctanoic acid (PFOA) and its salts+ | 335-67-1 | mg/kg | 0.010 | ND |
| Perfluorooctane sulfonates (PFOS) ^ | 1763-23-1 | mg/kg | 0.010 | ND |
| Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 | mg/kg | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide(MeFOSA) | 31506-32-8 | mg/kg | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | mg/kg | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol(MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol(EtFOSE) | 1691-99-2 | mg/kg | 0.010 | ND |
| Perfluorooctane sulfonates (PFOS) and its derivatives | - | mg/kg | - | ND |

Notes :

- (1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

Hexabromocyclododecane (HBCDD)

Test Method : SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>005</u> |
|--|--|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 | mg/kg | 10 | ND |



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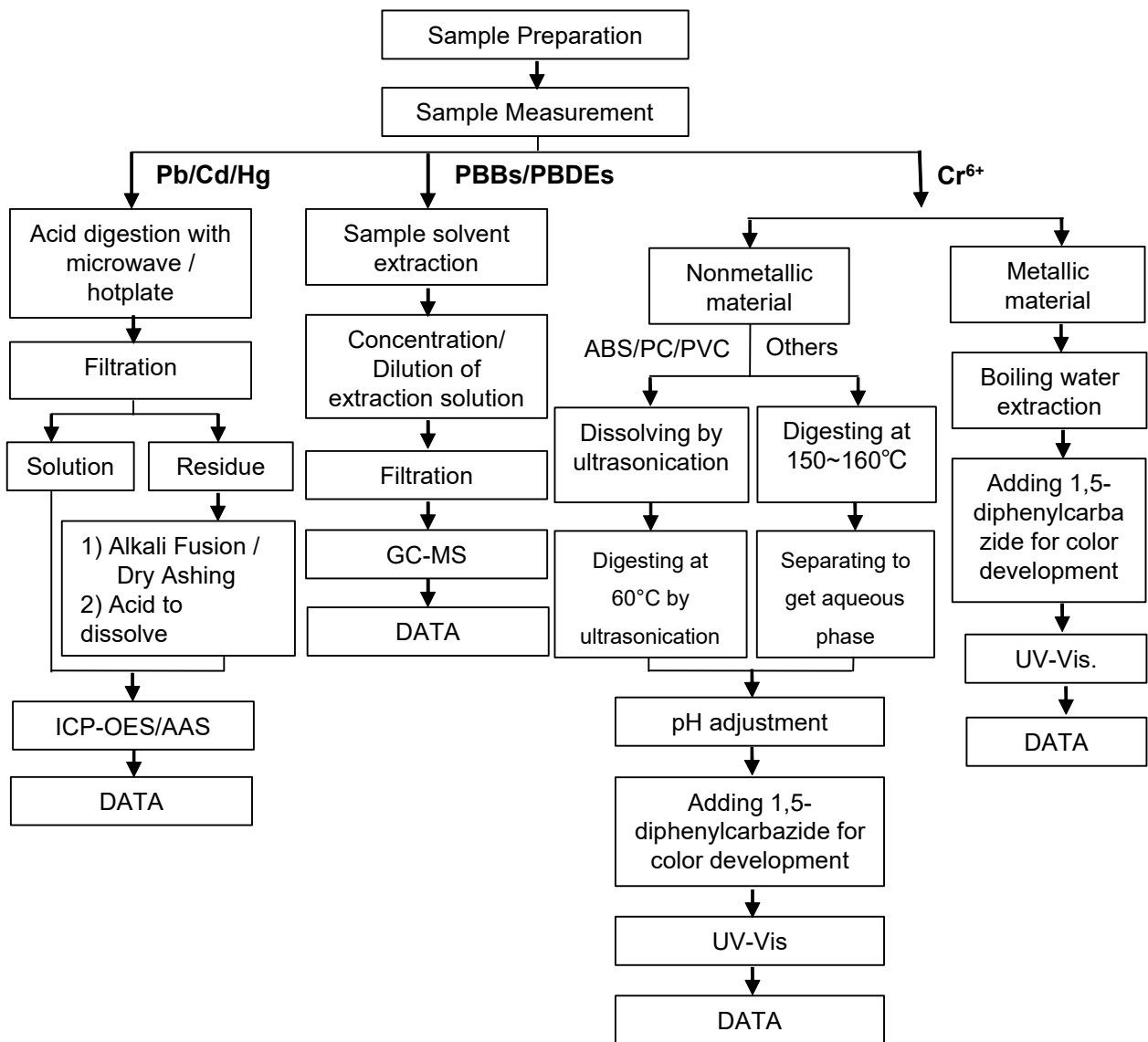
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ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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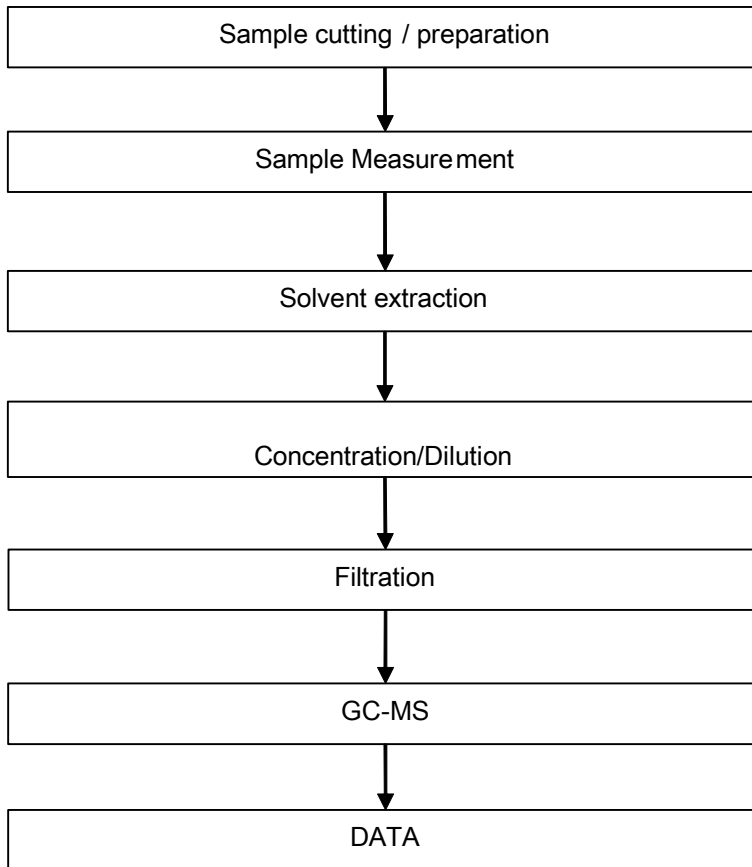
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



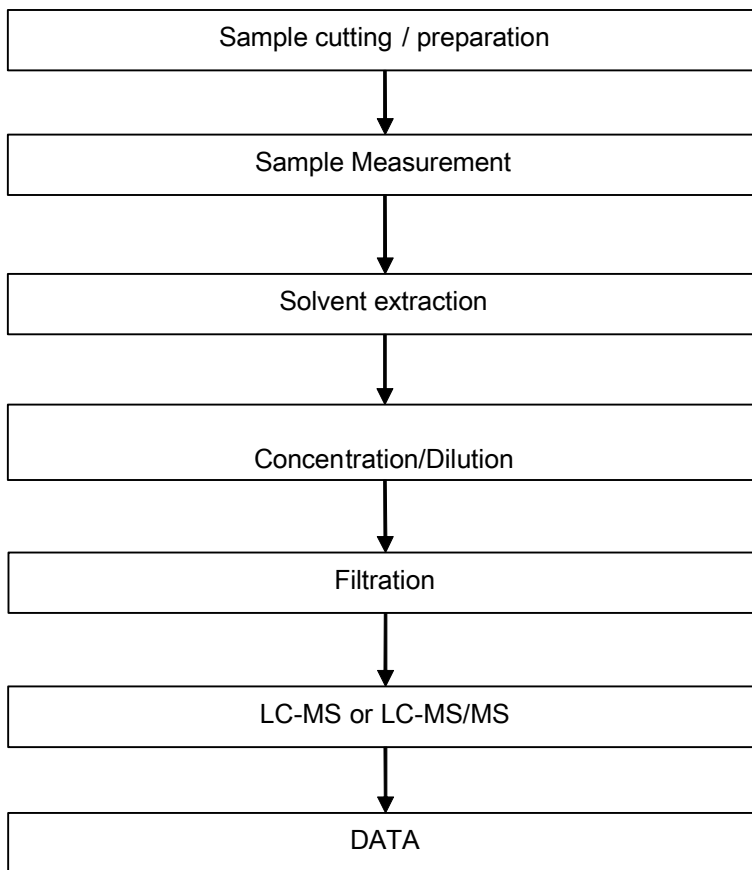
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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Olivia Li
- 2) Name of the person in charge of testing: Qiong Liu



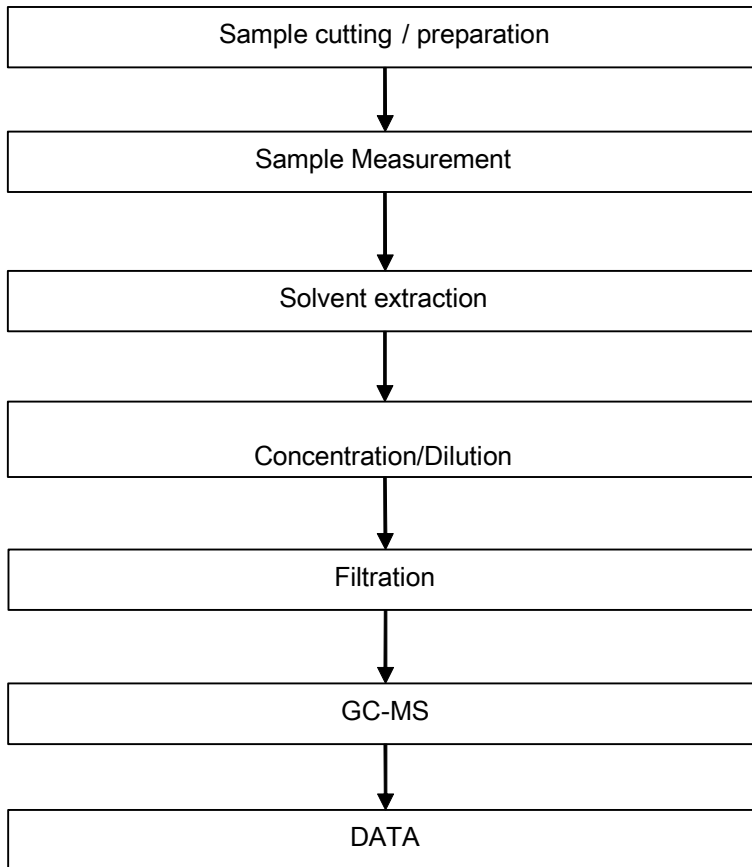
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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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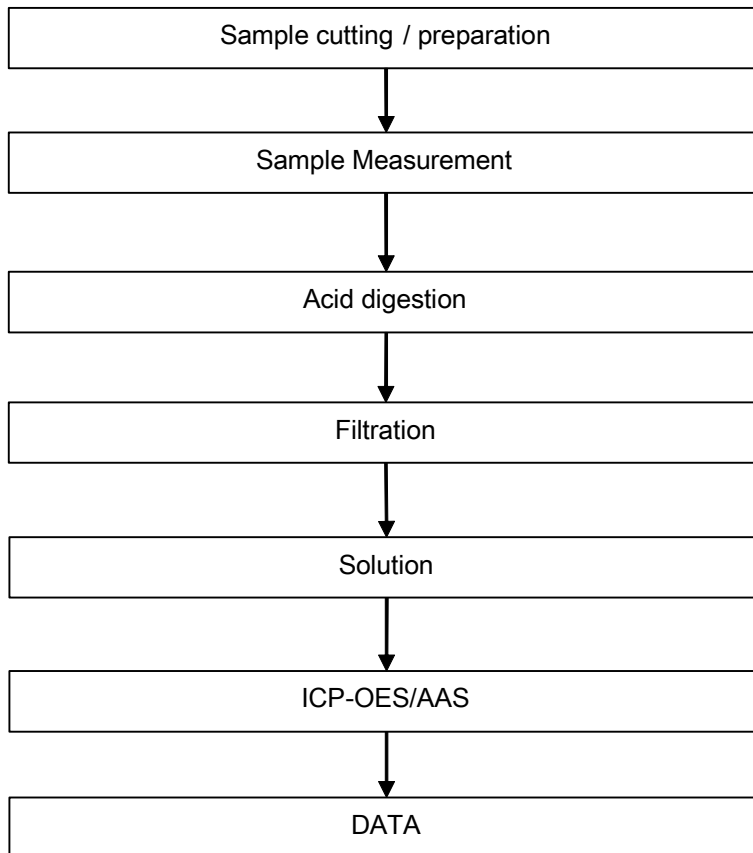
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Elementary Testing Flow Chart

- 1) Name of the person who made testing : Edith Zhang
- 2) Name of the person in charge of testing : Bella Wang

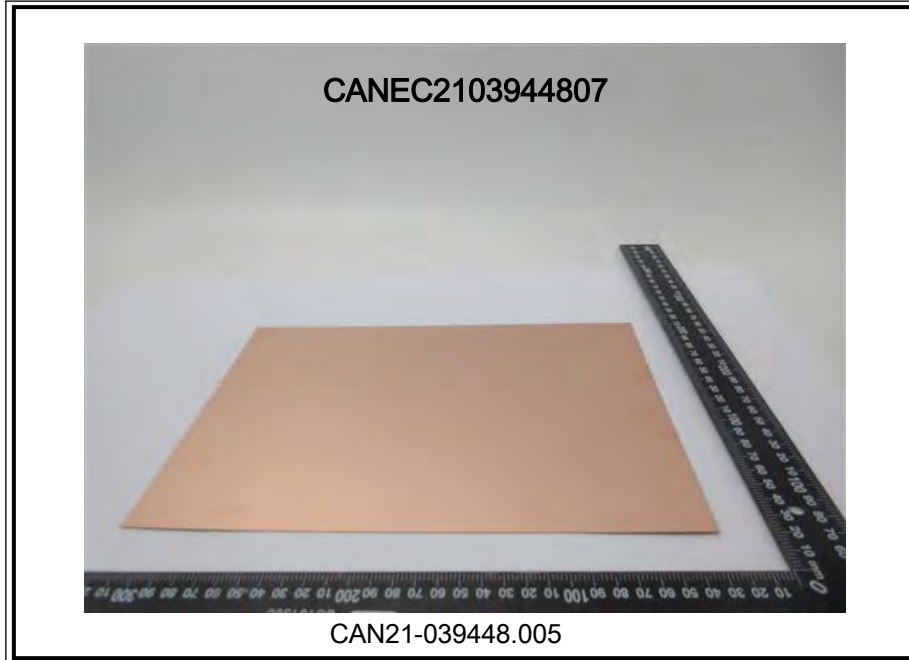


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檢測報告 Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 1 頁 共 10 頁
Page 1 of 10

報告抬頭公司名稱 尚洪股份有限公司
Company Name GREENTOP TECHNOLOGY CO.,LTD
shown on Report
地 址 709 台南市安南區工業一路 85 號
Address NO 85,GONGYE 1ST RD,ANNAN DIST,TAINAN CITY 709,TAIWAN

以下測試之樣品及樣品信息由申請者提供並確認

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

| | |
|----------------------|--------------------------------|
| 樣品名稱 | 防焊綠色環保油墨 |
| Sample Name | GREEN MATERIAL OF SOLDER MASK |
| 樣品型號 | S70G1-Z |
| Part No. | S70G1-Z |
| 樣品顏色 | 綠色 |
| Color | GREEN |
| 樣品接收日期 | 2021.10.19 |
| Sample Received Date | Oct. 19, 2021 |
| 樣品檢測日期 | 2021.10.19-2021.10.25 |
| Testing Period | Oct. 19, 2021 to Oct. 25, 2021 |

檢測要求 根據客戶要求，對所提交樣品中的鉛(Pb)，鎘(Cd)，汞(Hg)，六價鉻(Cr(VI))，多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，銻(Sb)，鉍(Be)，砷(As)，六溴環十二烷(HBCDD)，氟(F)，氯(Cl)，溴(Br)，碘(I)，全氟辛烷磺酸(PFOS)，全氟辛酸(PFOA)，鄰苯二甲酸酯進行測試。

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Antimony (Sb), Beryllium (Be), Arsenic(As), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA), Phthalates in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。
Test Method/Test Result(s) Please refer to the following page(s).

主 檢
Tested by

審 核
Reviewed by

黃文昕

批 准
Approved

日 期
Date

2021.10.25

馮智聰
實驗室經理 Laboratory Manager

No. R556666613

CTI 華測檢測技術有限公司
Testing Center, Centre Testing International (Taiwan) Co., Ltd.

桃園市蘆竹區南崁路二段 9 號 5 樓之 6
5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan



檢測報告

Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 2 頁 共 10 頁
Page 2 of 10

檢測依據 Test Method

| 測試項目 Tested Item(s) | 測試方法 Test Method | 測試儀器 Measured Equipment(s) |
|--|--|----------------------------------|
| 鉛 Lead(Pb) | IEC 62321-5:2013 | ICP-OES |
| 鎘 Cadmium(Cd) | IEC 62321-5:2013 | ICP-OES |
| 汞 Mercury(Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| 六價鉻 Hexavalent Chromium(Cr(VI)) | IEC 62321-7-2:2017 | UV-Vis |
| 多溴聯苯 Polybrominated Biphenyls(PBBs) | IEC 62321-6:2015 | GC-MS |
| 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| 鄰苯二甲酸酯 Phthalates | IEC 62321-8:2017 | GC-MS |
| 銻 Antimony (Sb) | 參考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| 鈹 Beryllium (Be) | 參考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| 砷 Arsenic(As) | 參考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018 | ICP-OES |
| 六溴環十二烷 (HBCDD) Hexabromocyclododecane (HBCDD) | IEC 62321-6:2015 | GC-MS |
| 氟 Fluorine (F) | 參考 EN 14582:2016 Refer to EN 14582:2016 | IC |
| 氯 Chlorine (Cl) | 參考 EN 14582:2016 Refer to EN 14582:2016 | IC |
| 溴 Bromine (Br) | 參考 EN 14582:2016 Refer to EN 14582:2016 | IC |
| 碘 Iodine (I) | 參考 EN 14582:2016 Refer to EN 14582:2016 | IC |
| 全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) | 參考 DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010 | LC-MS-MS |
| 全氟辛烷酸 Perfluorooctanoic Acid (PFOA) | 參考 DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010 | LC-MS-MS |

檢測報告

Test Report

報告編號 A221043195210100109E
 Report No. A221043195210100109E

第 3 頁 共 10 頁
 Page 3 of 10

檢測結果 Test Result(s)

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|----------------------------------|-----------|-----------|
| 鉛 Lead (Pb) | N.D. | 2 mg/kg |
| 鎘 Cadmium (Cd) | N.D. | 2 mg/kg |
| 汞 Mercury (Hg) | N.D. | 2 mg/kg |
| 六價鉻 Hexavalent Chromium (Cr(VI)) | N.D. | 8 mg/kg |

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|--|-----------|-----------|
| 多溴聯苯 Polybrominated Biphenyls(PBBs) | | |
| 一溴聯苯 Monobromodiphenyl | N.D. | 5 mg/kg |
| 二溴聯苯 Dibromobiphenyl | N.D. | 5 mg/kg |
| 三溴聯苯 Tribromobiphenyl | N.D. | 5 mg/kg |
| 四溴聯苯 Tetrabromobiphenyl | N.D. | 5 mg/kg |
| 五溴聯苯 Pentabromobiphenyl | N.D. | 5 mg/kg |
| 六溴聯苯 Hexabromobiphenyl | N.D. | 5 mg/kg |
| 七溴聯苯 Heptabromobiphenyl | N.D. | 5 mg/kg |
| 八溴聯苯 Octabromobiphenyl | N.D. | 5 mg/kg |
| 九溴聯苯 Nonabromobiphenyl | N.D. | 5 mg/kg |
| 十溴聯苯 Decabromobiphenyl | N.D. | 5 mg/kg |

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|--|-----------|-----------|
| 多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs) | | |
| 一溴二苯醚 Monobromodiphenyl ether | N.D. | 5 mg/kg |
| 二溴二苯醚 Dibromobiphenyl ether | N.D. | 5 mg/kg |
| 三溴二苯醚 Tribromobiphenyl ether | N.D. | 5 mg/kg |
| 四溴二苯醚 Tetrabromobiphenyl ether | N.D. | 5 mg/kg |
| 五溴二苯醚 Pentabromobiphenyl ether | N.D. | 5 mg/kg |
| 六溴二苯醚 Hexabromobiphenyl ether | N.D. | 5 mg/kg |
| 七溴二苯醚 Heptabromobiphenyl ether | N.D. | 5 mg/kg |
| 八溴二苯醚 Octabromobiphenyl ether | N.D. | 5 mg/kg |
| 九溴二苯醚 Nonabromobiphenyl ether | N.D. | 5 mg/kg |
| 十溴二苯醚 Decabromobiphenyl ether | N.D. | 5 mg/kg |

檢測報告

Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 4 頁 共 10 頁
Page 4 of 10

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|---|-----------|-----------|
| 鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP) | | |
| 鄰苯二甲酸二正丁酯(DBP) Dibutyl phthalate(DBP) CAS#:84-74-2 | N.D. | 50 mg/kg |
| 鄰苯二甲酸丁基苄酯(BBP) Benzylbutyl phthalate(BBP) CAS#:85-68-7 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二(2-乙基己基)酯(DEHP) Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二異丁酯(DIBP) Diisobutyl phthalate(DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg |

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|--|-----------|------------|
| 銻 Antimony (Sb) | N.D. | 10 mg/kg |
| 鈹 Beryllium (Be) | N.D. | 10 mg/kg |
| 砷 Arsenic (As) | N.D. | 10 mg/kg |
| 六溴環十二烷(HBCDD) Hexabromocyclododecane(HBCDD) | N.D. | 5 mg/kg |
| 全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) | N.D. | 0.01 mg/kg |
| 全氟辛酸 Perfluorooctanoic Acid (PFOA) | N.D. | 0.01 mg/kg |

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|---------------------|-----------|-----------|
| 氟 Fluorine (F) | N.D. | 50 mg/kg |
| 氯 Chlorine (Cl) | N.D. | 50 mg/kg |
| 溴 Bromine (Br) | N.D. | 50 mg/kg |
| 碘 Iodine (I) | N.D. | 50 mg/kg |

檢測報告

Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 5 頁 共 10 頁
Page 5 of 10

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|---|-----------|-----------|
| 鄰苯二甲酸酯 Phthalates | | |
| 鄰苯二甲酸二異壬酯(DINP) Diisononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二己酯(DNHP) Di-n-hexyl phthalate(DNHP) CAS#:84-75-3 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二異癸酯(DIDP) Diisodecyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二正辛酯(DNOP) Di-n-octyl phthalate(DNOP) CAS#:117-84-0 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二戊酯(DPP) Dipentyl phthalate(DPP) CAS#:131-18-0 | N.D. | 50 mg/kg |
| 鄰苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3 | N.D. | 50 mg/kg |

樣品/部位描述 綠色油墨(乾重)
Sample/Part Description Green ink (dry weight)

備註: 對於檢測鉛, 鎘, 汞, 銻, 鉍, 砷之樣品已完全溶解。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-測試樣品經過 140°C 烘烤 3 小時後測試

-根據客戶聲明, 本報告中樣品和報告 A2210431952101001E 中的樣品為同材質, 本報告中樣品的測試結果引自於報告 A2210431952101001E。

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Antimony, Beryllium, Arsenic.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-The sample was tested after drying for 3 hours under 140°C.

-According to the client's statement, the material of sample in this report is the same as the sample in report No. A2210431952101001E, so the test result(s) is(are) presented in reference to that one.

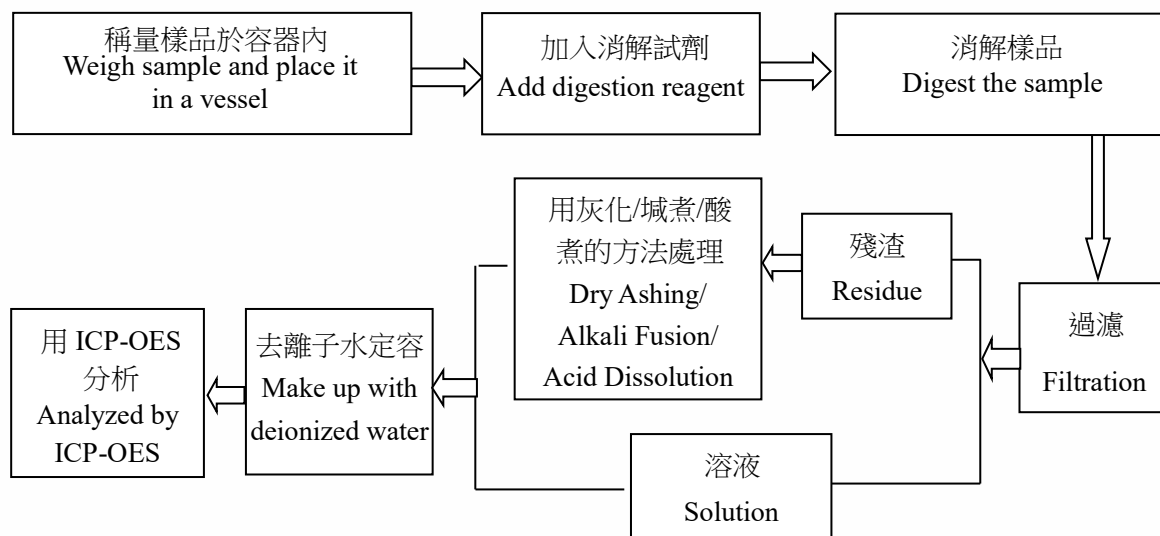
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Report No. A221043195210100109E

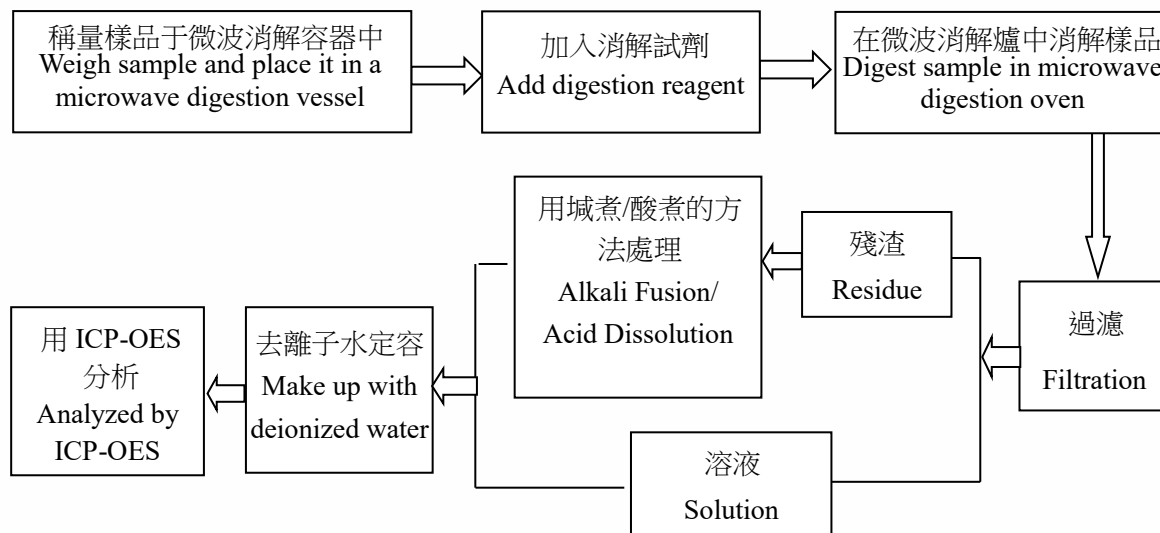
第 6 頁 共 10 頁
Page 6 of 10

檢測流程 Test Process

1. 鉛 Lead(Pb), 鎘 Cadmium(Cd)



2. 汞 Mercury(Hg)

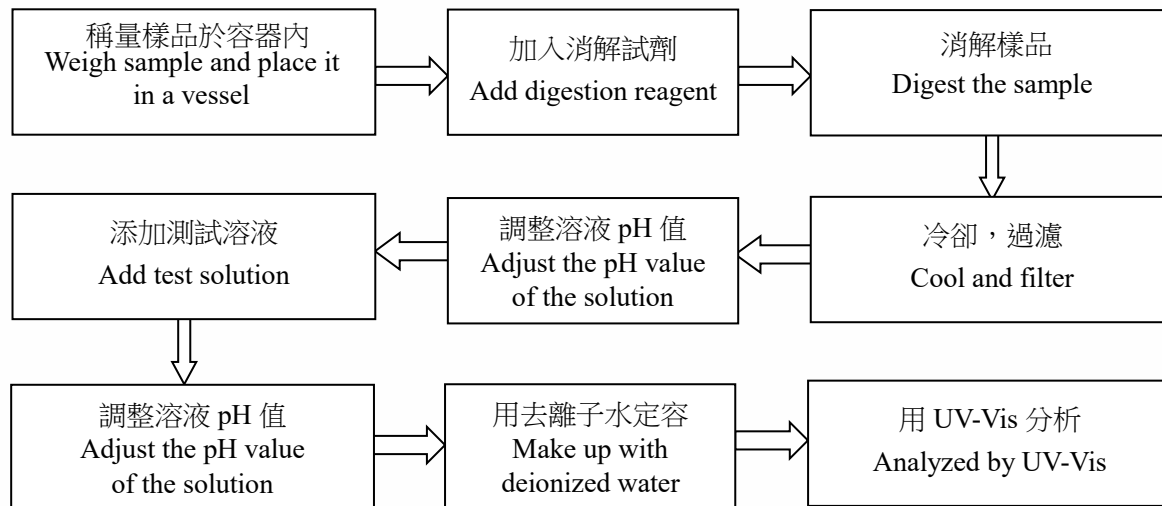


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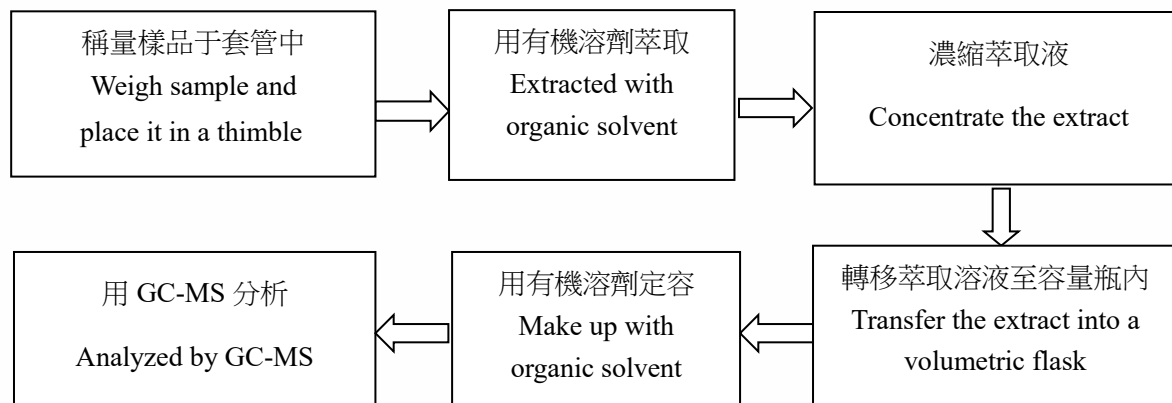
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Report No. A221043195210100109E

第 7 頁 共 10 頁
Page 7 of 10

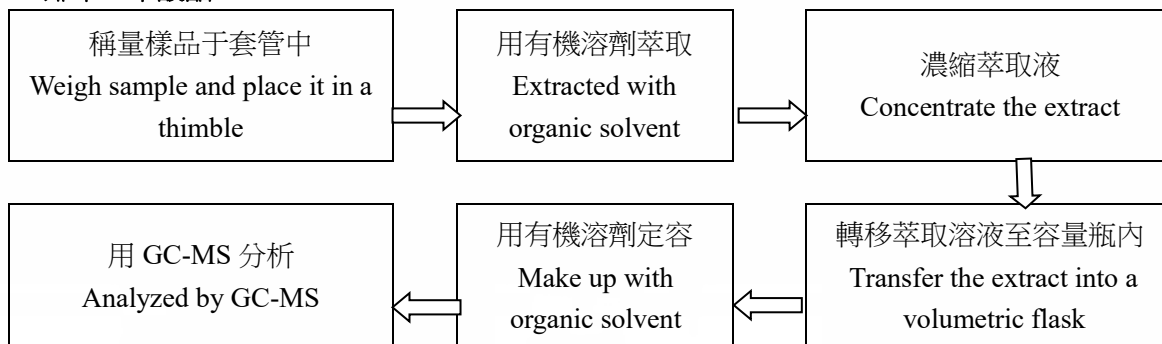
3. 六價鉻 Hexavalent Chromium(Cr(VI))



4. 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs),多溴聯苯 Polybrominated Biphenyls(PBBs)



5. 鄰苯二甲酸酯 Phthalates

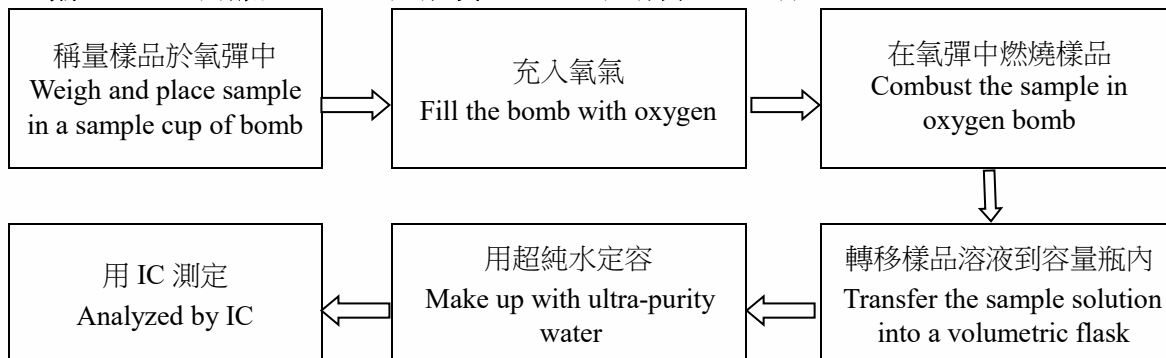


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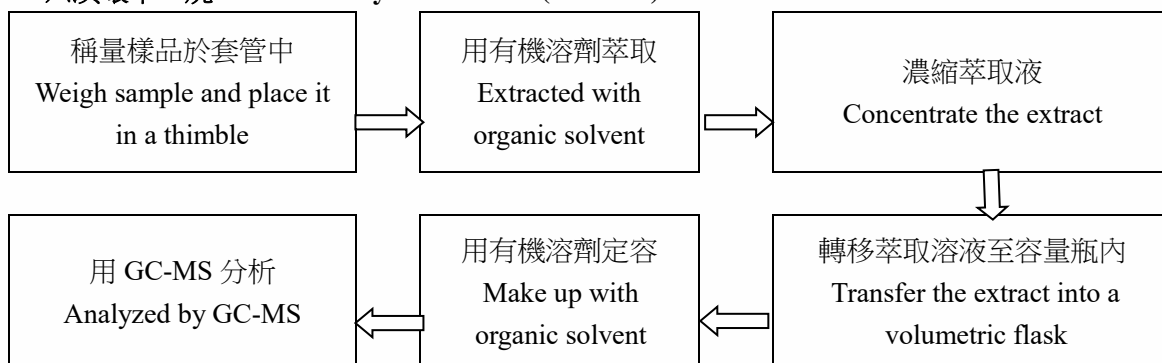
報告編號 A221043195210100109E
Report No. A221043195210100109E

第 8 頁 共 10 頁
Page 8 of 10

6. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)

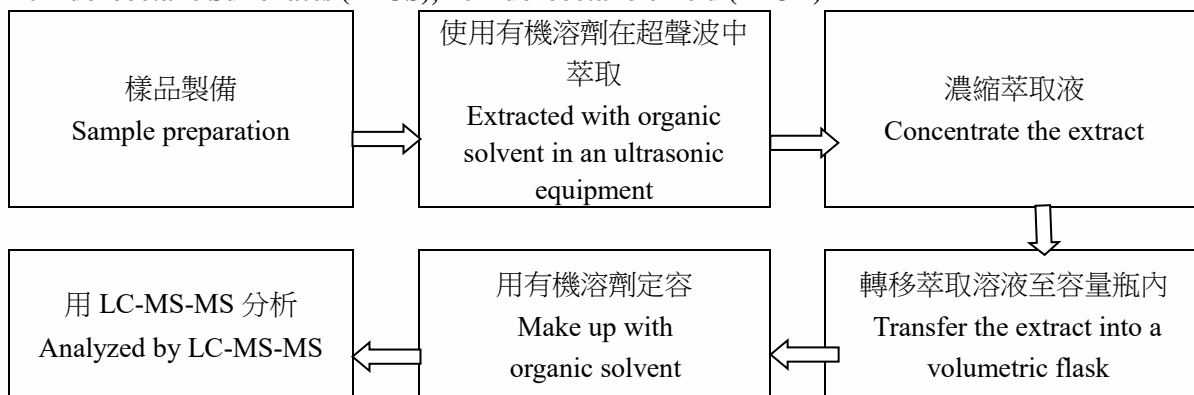


7. 六溴環十二烷 Hexabromocyclododecane (HBCDD)



8. 全氟辛烷磺酸(PFOS), 全氟辛酸(PFOA)

Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA)

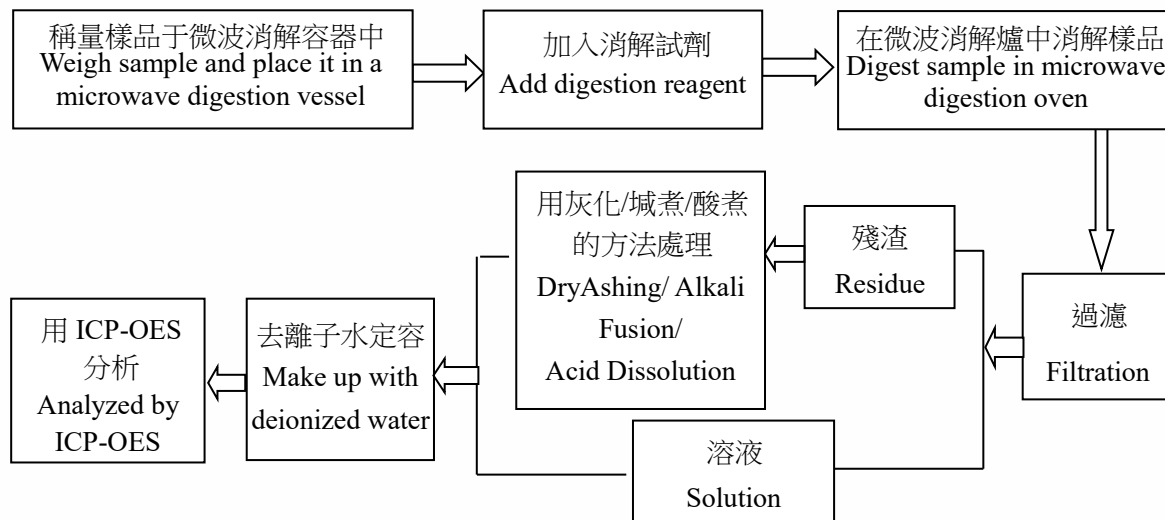


檢測報告 Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 9 頁 共 10 頁
Page 9 of 10

9. 銻 Antimony (Sb), 鈹 Beryllium (Be), 砷 Arsenic (As)



檢測報告 Test Report

報告編號 A221043195210100109E
Report No. A221043195210100109E

第 10 頁 共 10 頁
Page 10 of 10

樣品圖片

Photo(s) of the sample(s)



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*** 報告結束 ***

*** End of Report ***

Test Report

No. SHAEC2125040401

Date: 24 Nov 2021

Page 1 of 11

JIANGSU KUANGSHUN PHOTOSENSITIVITY NEW-MATERIAL STOCK CO., LTD.

Huacheng Road 18, Qingyang Industried Area, Jiangyin City, Jiangsu Province

The following sample(s) was/were submitted and identified on behalf of the clients as : Liquid Photoimageable Solder Mask

SGS Job No. : SP21-035837 - SUZ
Model No. : KSM-S6189EWT
Material No. : KSM-19E
Client Ref. Information : To 75°C pre-bake for 3 hours; 120°C, 1 hour curable mixture
Date of Sample Received : 18 Nov 2021
Testing Period : 18 Nov 2021 - 24 Nov 2021
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan

Jenny Lan
Approved Signatory

scan to see the report



0CCD4137



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------|
| SN1 | SHA21-250404.001 | White solid |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit | MDL | 001 |
|------------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1000 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| Sum of PBBs | 1000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. SHAEC2125040401

Date: 24 Nov 2021

Page 3 of 11

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|--------------|-------------|------------|------------|
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Di-butyl Phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (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.

Sulfur

Test Method : With reference to EN 14582: 2016, analysis was performed by Ion Chromatograph (IC).

| <u>Test Item(s)</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------------|-------------|------------|------------|
| Sulfur (S) | mg/kg | 50 | 236 |

Hexabromocyclododecane (HBCDD/HBCD)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------------------|--------------------------|-------------|------------|------------|
| Hexabromocyclododecane (HBCDD/HBCD) | 25637-99-4/ 3194-55-6 | mg/kg | 10 | ND |

Phthalates Content



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Test Report

No. SHAEC2125040401

Date: 24 Nov 2021

Page 4 of 11

Test Method : With reference to EN 14372:2004, analysis was performed by GC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------------------|---------------------------|-------------|------------|------------|
| Dibutyl Phthalate (DBP) | 84-74-2 | % | 0.003 | ND |
| Benzylbutyl Phthalate (BBP) | 85-68-7 | % | 0.003 | ND |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | % | 0.003 | ND |
| Diisononyl Phthalate (DINP) | 28553-12-0 /68515-48-0 | % | 0.01 | ND |
| Di-n-octyl Phthalate (DNOP) | 117-84-0 | % | 0.003 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0 /68515-49-1 | % | 0.01 | ND |
| Dimethyl Phthalate (DMP) | 131-11-3 | % | 0.003 | ND |
| Diethyl Phthalate (DEP) | 84-66-2 | % | 0.003 | ND |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | % | 0.003 | ND |
| Di-n-pentyl Phthalates (DnPP) | 131-18-0 | % | 0.003 | ND |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7 | % | 0.003 | ND |
| Diphenyl Phthalate (DPhP) | 84-62-8 | % | 0.003 | ND |
| Dibenzyl Phthalate (DBzP) | 523-31-9 | % | 0.003 | ND |
| Diisooctyl Phthalate (DiOP) | 27554-26-3 | % | 0.01 | ND |
| Dipropyl Phthalate (DPrP) | 131-16-8 | % | 0.003 | ND |
| Dinonyl Phthalate (DNP) | 84-76-4 | % | 0.003 | ND |
| Di-n-hexyl Phthalate (DnHP) | 84-75-3 | % | 0.003 | ND |

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to CEN/TS 15968:2010, analysis is performed by HPLC-MS or LC-MS-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|----------------|-------------|------------|------------|
| Perfluorooctane Sulfonates (PFOS)^ | 1763-23-1 | mg/kg | 0.01 | ND |
| Perfluorooctanoic Acid (PFOA) and its salts+ | | mg/kg | 0.01 | ND |

Notes :

- (1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)



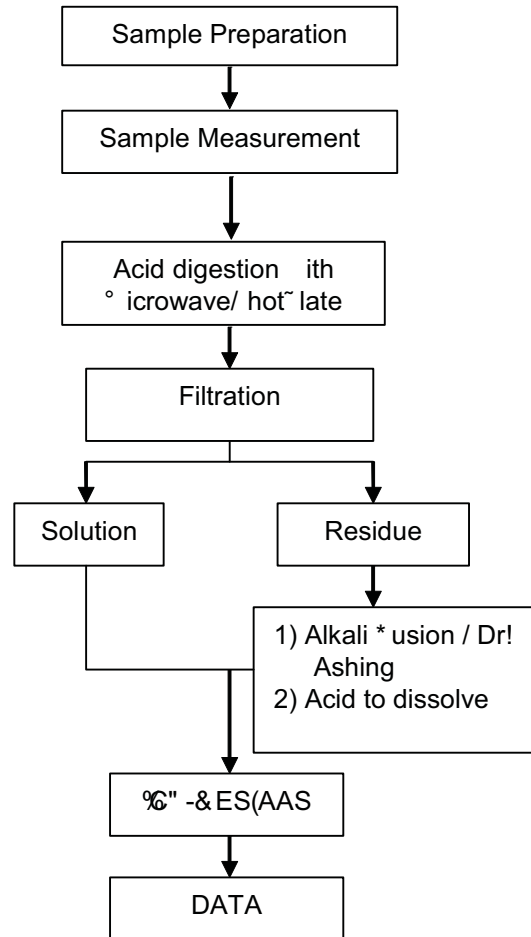
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Elements (IEC62321) Testing Flow Chart

1) These samples are dissolved totally! ! pre-conditioning method according to below flow chart.



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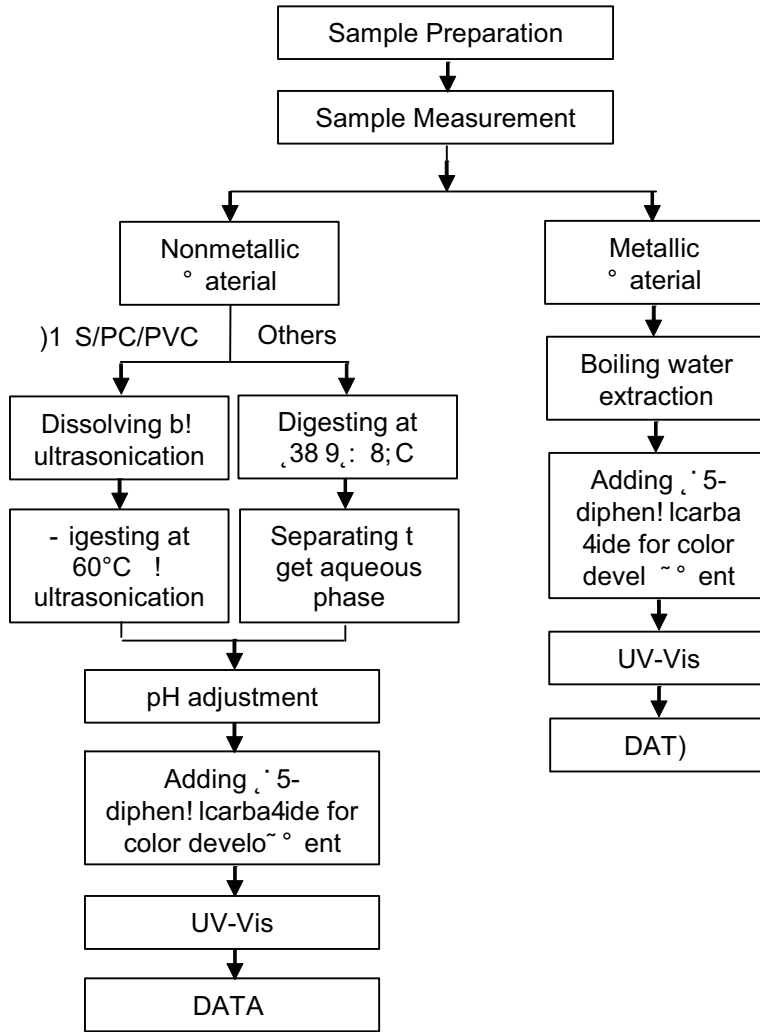
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

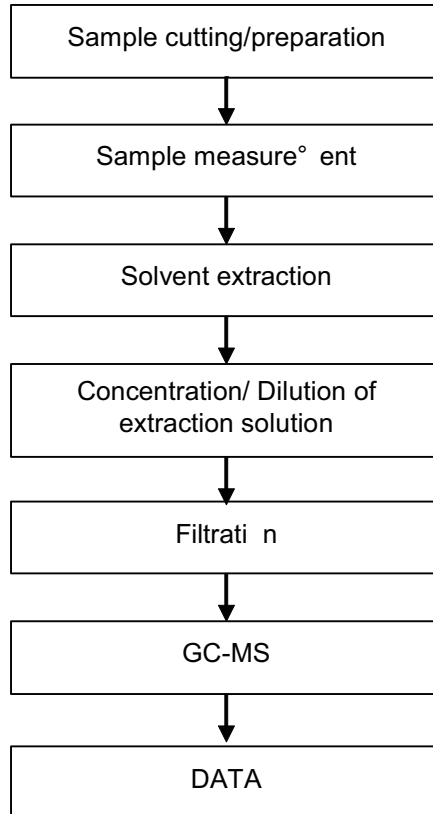


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PBBs/PBDEs Testing Flow Chart



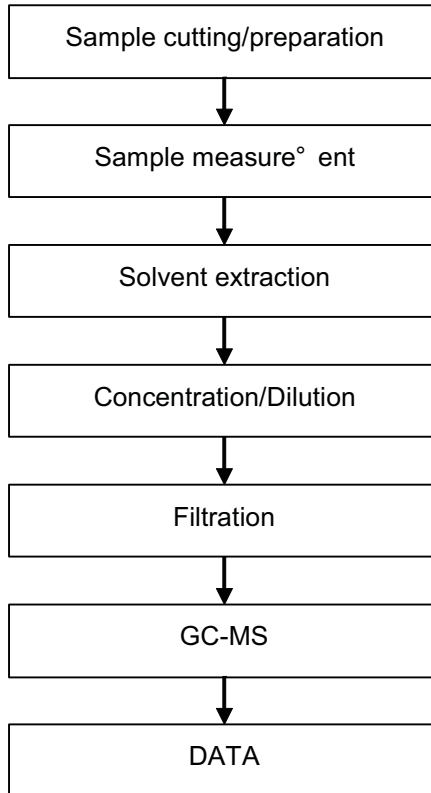
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Phthalates Testing Flow Chart

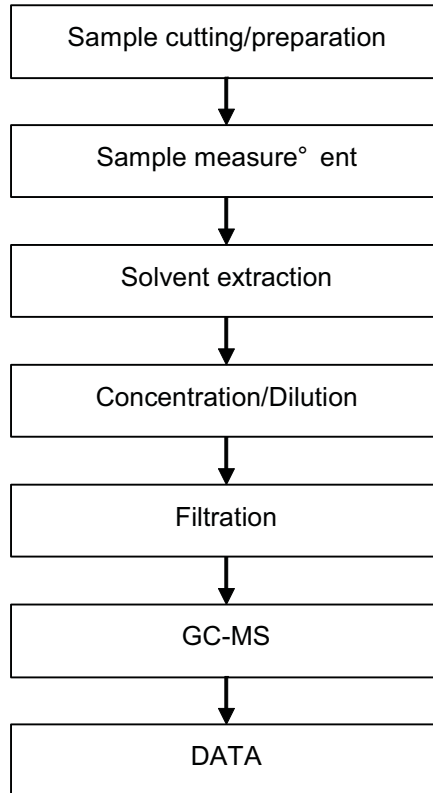


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HBCDD Testing Flow Chart



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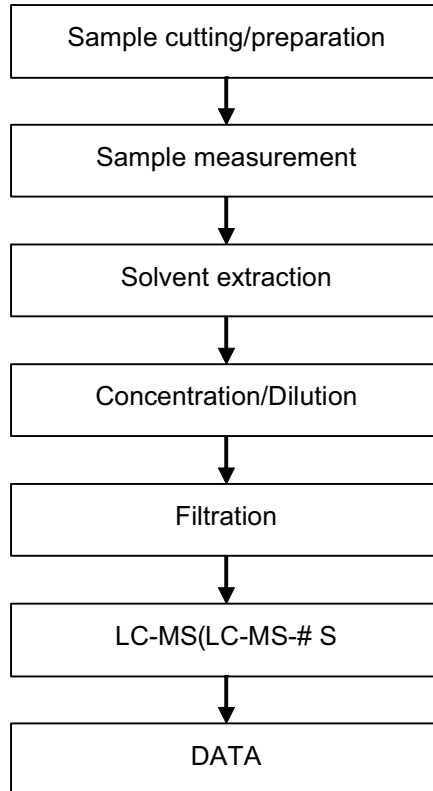
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PFASs/ PFOS/PFOA Testing Flow Chart



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Sample photo:



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Testing Center - China (Shanghai)

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Test Report

Report No. A2210278310101017

Company Name SHENZHEN BAIKAL ELECTRONIC MATERIALS CO., LTD
shown on Report

Address 7F, A BLOCK, ZONGTAI BLDG, 2007 BAOYUAN ROAD, XIXIANG, BAOAN,
SHENZHEN, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name OSP
Part No. M2601/M2601A/M2605/M2605A/M2607/M2607/M2608/M2608A/M2608D/
M2608DA/M2608H/M2608HA/M2608X/M2608Z/M2608XA/M2608T/M2608HT/
M2608TM/M2609/M2609A/M2609T/M3607/N3607/M3608/M3608A/M3608D/
M3608DA/M3608H/M3608HA/M3608X/M3608Z/M3608XA/M3608T/M3608HT/
M3608TM/F302/F302A/F302B/F302D/F302E/F302F/F302K/M302/M302A/M302B/
OSP Stripper/OSP Filmer/OSP Dilution

Sample Received Date Jul. 15, 2021
Testing Period Jul. 15, 2021 to Jul. 21, 2021

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD), Phthalates in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Conclusion

| Tested Sample | According to standard/directive | Result |
|------------------|--|--------|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS |

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Grace Sun

Hill Zheng

Hill Zheng
Technical Manager

Reviewed by *Amsofong*

Date Jul. 21, 2021

No. R179757025

Test Report

Report No. A2210278310101017

Page 2 of 8

Test Method

| Test Item(s) | Test Method | Measured Equipment(s) |
|--|---|-----------------------|
| Lead (Pb) | IEC 62321-5:2013 | ICP-OES |
| Cadmium (Cd) | IEC 62321-5:2013 | ICP-OES |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 CSV | ICP-OES |
| Hexavalent Chromium (Cr(VI)) | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 | GC-MS |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | GC-MS |
| Hexabromocyclododecane (HBCDD) | Refer to US EPA 3540C:1996 & US EPA 8270E:2018 | GC-MS |
| Phthalates | Refer to EN 14372:2004(E) | GC-MS |

Test Report

Report No. A2210278310101017

Page 3 of 8

Test Result(s)

| Tested Item(s) | Result | MDL | Limit |
|---|--------|---------|------------|
| Lead(Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| Cadmium(Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| Mercury(Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium(Cr(VI)) | N.D. | 8 mg/kg | 1000 mg/kg |
| Tested Item(s) | Result | MDL | Limit |
| Polybrominated Biphenyls (PBBs) | | | |
| Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromobiphenyl | N.D. | 5 mg/kg | |
| Tribromobiphenyl | N.D. | 5 mg/kg | |
| Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| Pentabromobiphenyl | N.D. | 5 mg/kg | |
| Hexabromobiphenyl | N.D. | 5 mg/kg | |
| Heptabromobiphenyl | N.D. | 5 mg/kg | |
| Octabromobiphenyl | N.D. | 5 mg/kg | |
| Nonabromobiphenyl | N.D. | 5 mg/kg | |
| Decabromobiphenyl | N.D. | 5 mg/kg | |
| Tested Item(s) | Result | MDL | Limit |
| Polybrominated Diphenyl Ethers (PBDEs) | | | |
| Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| Decabromodiphenyl ether | N.D. | 5 mg/kg | |

Test Report

Report No. A2210278310101017

Page 4 of 8

Test Result(s)

| Tested Item(s) | Result | MDL | Limit |
|--|--------|----------|------------|
| Phthalates (DBP, BBP, DEHP, DIBP) | | | |
| Dibutyl phthalate(DBP) CAS#:84-74-2 | N.D. | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate(BBP) CAS#:85-68-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7 | N.D. | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate(DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 mg/kg |
| Tested Item(s) | Result | MDL | |
| Hexabromocyclododecane(HBCDD) | N.D. | 5 mg/kg | |
| Tested Item(s) | Result | MDL | |
| Phthalates | | | |
| Di-n-octyl phthalate(DNOP) CAS#:117-84-0 | N.D. | 30 mg/kg | |
| Di-isononyl phthalate(DINP) CAS#:28553-12-0,68515-48-0 | N.D. | 50 mg/kg | |
| Di-iso-decyl phthalate(DIDP) CAS#:26761-40-0,68515-49-1 | N.D. | 50 mg/kg | |
| Dimethyl phthalate(DMP) CAS#:131-11-3 [#] | N.D. | 30 mg/kg | |
| Diethyl phthalate(DEP) CAS#:84-66-2 [#] | N.D. | 30 mg/kg | |
| Diisobutyl phthalate(DIBP) CAS#:84-69-5 [#] | N.D. | 30 mg/kg | |
| Dipentyl phthalate(DPP) CAS#:131-18-0 [#] | N.D. | 30 mg/kg | |
| Di-n-hexyl phthalate(DNHP) CAS#:84-75-3 [#] | N.D. | 30 mg/kg | |
| Bis(2-methoxyethyl) phthalate(DMEP) CAS#:117-82-8 | N.D. | 30 mg/kg | |
| Diisopentylphthalate(DIPP) CAS#:605-50-5 [#] | N.D. | 30 mg/kg | |
| ^① 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters(DHNUP) CAS#:68515-42-4 | N.D. | 50 mg/kg | |

Test Report

Report No. A2210278310101017

Page 5 of 8

Sample/Part Description Light blue liquid

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-^①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-Information Statement: The sample is a mixture of several substances.

Note: -# indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

CTI 华测检测
A2210278310101017
章

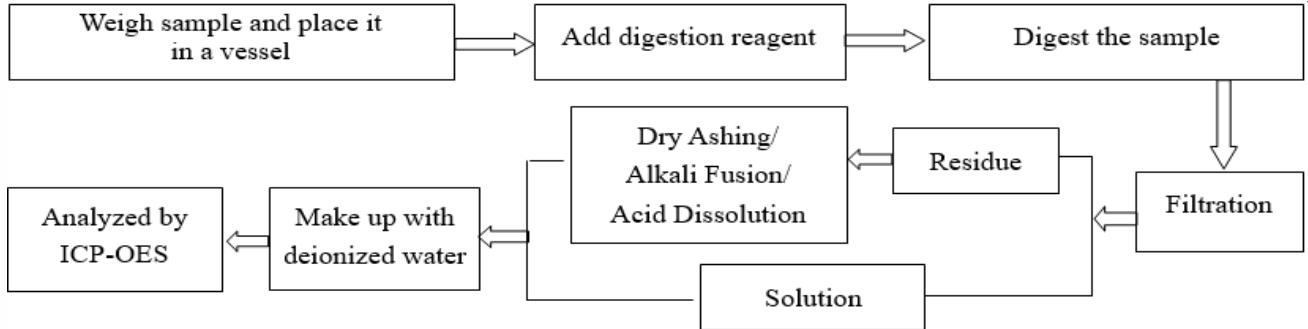
Test Report

Report No. A2210278310101017

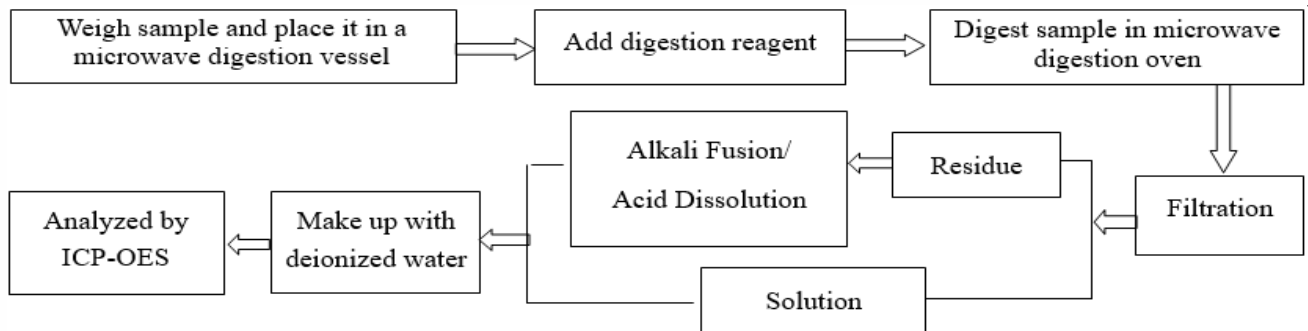
Page 6 of 8

Test Process

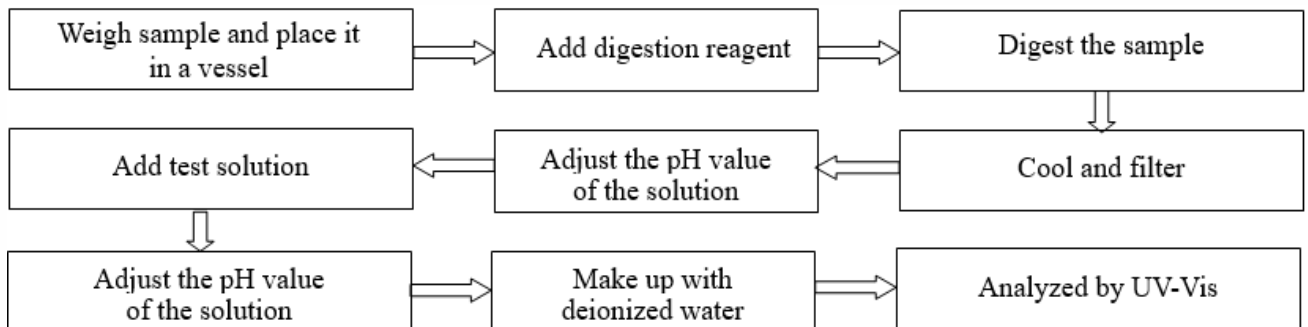
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



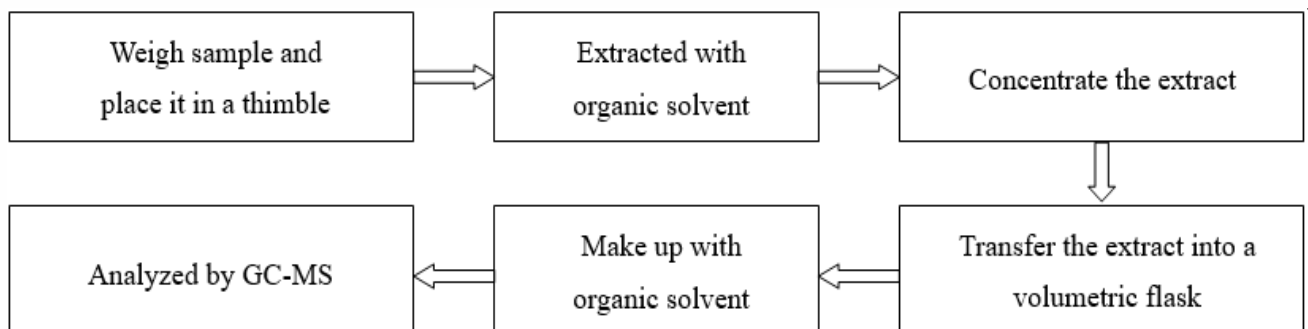
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

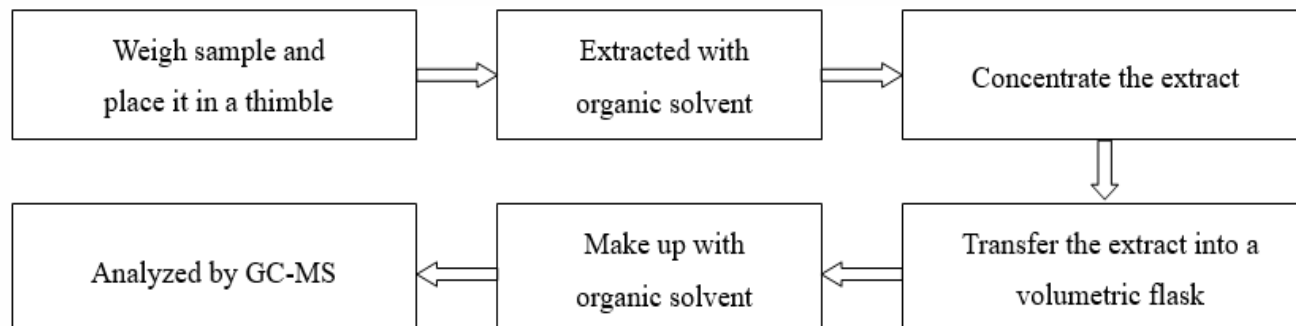


Test Report

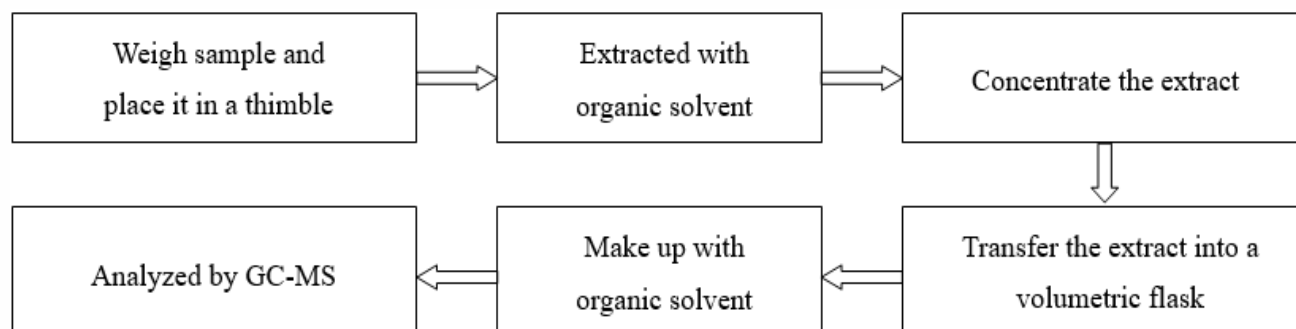
Report No. A2210278310101017

Page 7 of 8

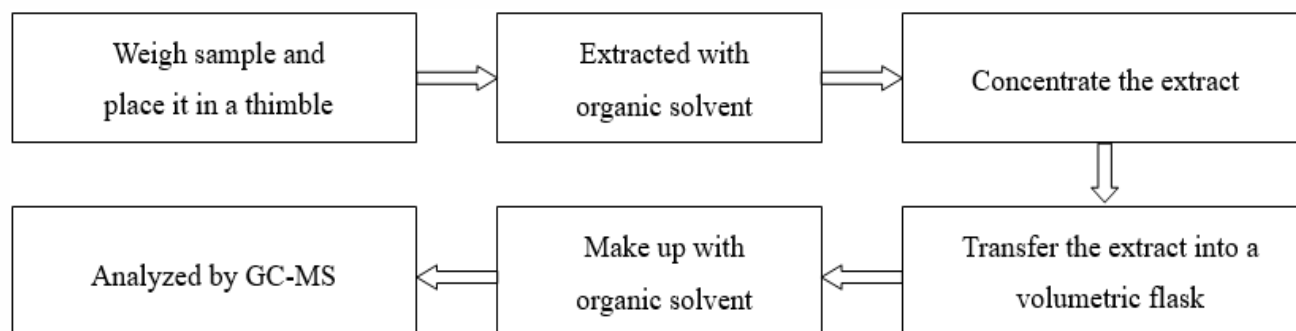
5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Hexabromocyclododecane (HBCDD)



7. Phthalates

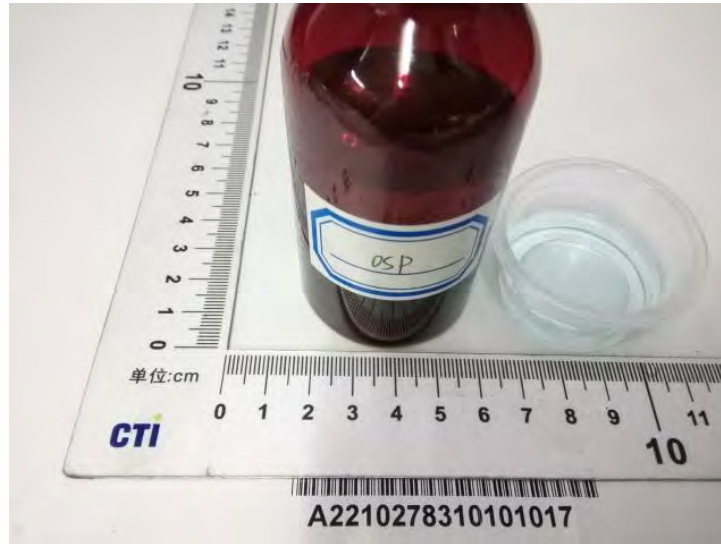


Test Report

Report No. A2210278310101017

Page 8 of 8

Photo(s) of the sample(s)



Statement:

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Test Report

No. CANEC2124348309

Date: 10 Jan 2022

Page 1 of 6

HUI ZHOU CITY FAN-ZHONG-BAO RUBBER&PLASTIC FOAM FACTORY CO.,LTD.
XINTANG INDUSTRIAL ZONE,QIU-BAO ROAD,QIU-CHANG TOWN,HUIYANG
DISTRICT,HUIZHOU,GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : Environmental protection
EVA foam rubber

SGS Job No. : CP21-068413 - SZ
Date of Sample Received : 23 Dec 2021
Testing Period : 23 Dec 2021 - 04 Jan 2022
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zmguan

Zm guan
Approved Signatory



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Test Report

No. CANEC2124348309

Date: 10 Jan 2022

Page 2 of 6

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|----------------|
| SN1 | CAN21-243483.006 | Black material |

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>006</u> |
|----------------------------|--------------|-------------|------------|------------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8 | ND |
| Sum of PBBs | 1,000 | mg/kg | - | ND |
| Monobromobiphenyl | - | mg/kg | 5 | ND |
| Dibromobiphenyl | - | mg/kg | 5 | ND |
| Tribromobiphenyl | - | mg/kg | 5 | ND |
| Tetrabromobiphenyl | - | mg/kg | 5 | ND |
| Pentabromobiphenyl | - | mg/kg | 5 | ND |
| Hexabromobiphenyl | - | mg/kg | 5 | ND |
| Heptabromobiphenyl | - | mg/kg | 5 | ND |
| Octabromobiphenyl | - | mg/kg | 5 | ND |
| Nonabromobiphenyl | - | mg/kg | 5 | ND |
| Decabromobiphenyl | - | mg/kg | 5 | ND |
| Sum of PBDEs | 1,000 | mg/kg | - | ND |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/kg | 5 | ND |
| Pentabromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. CANEC2124348309

Date: 10 Jan 2022

Page 3 of 6

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>006</u> |
|-------------------------------------|--------------|-------------|------------|------------|
| Hexabromodiphenyl ether | - | mg/kg | 5 | ND |
| Heptabromodiphenyl ether | - | mg/kg | 5 | ND |
| Octabromodiphenyl ether | - | mg/kg | 5 | ND |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |
| Decabromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibutyl phthalate (DBP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) | 1000 | mg/kg | 50 | ND |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalates (DIBP) | 1000 | mg/kg | 50 | ND |

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (3) 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.



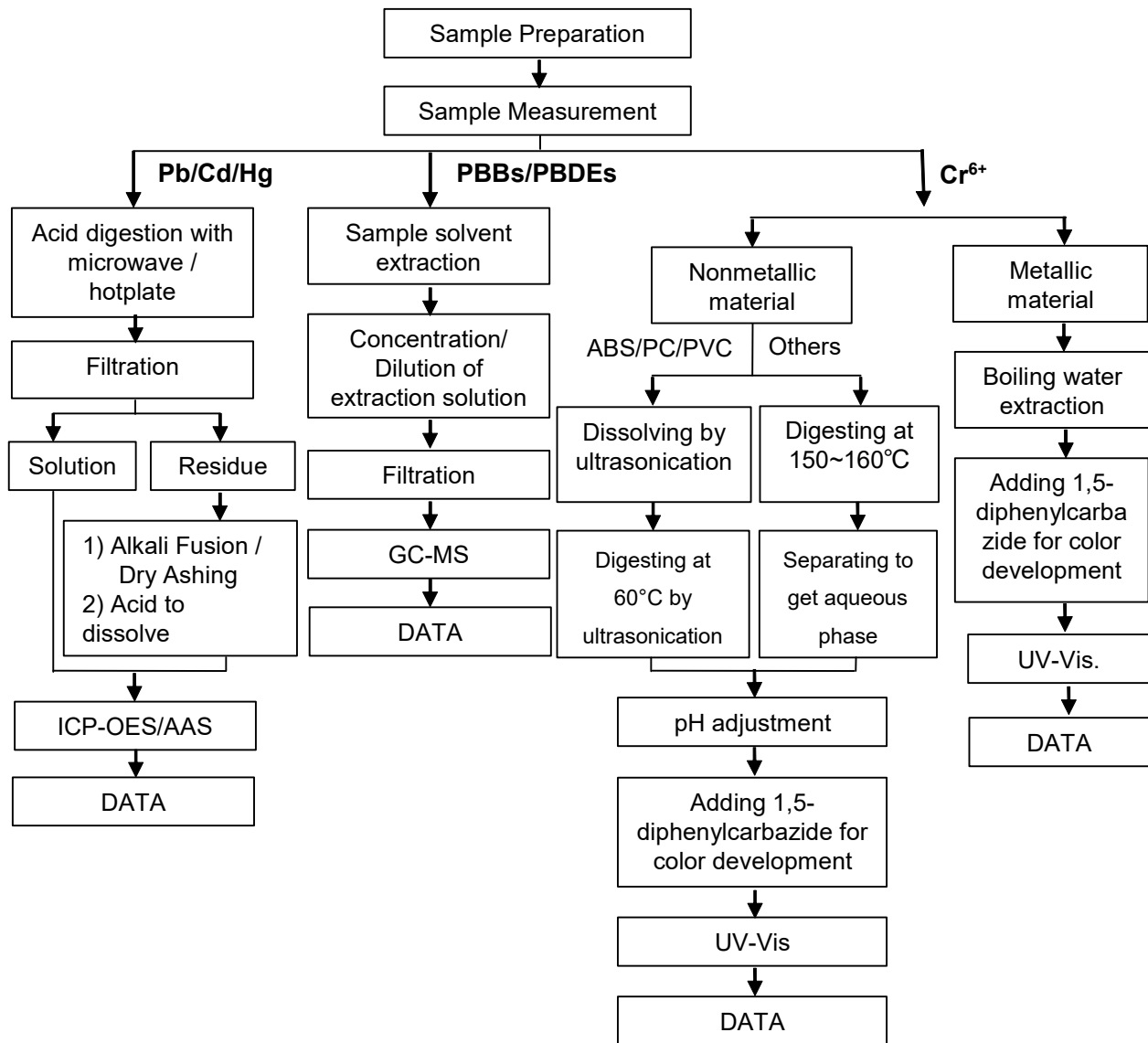
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded).

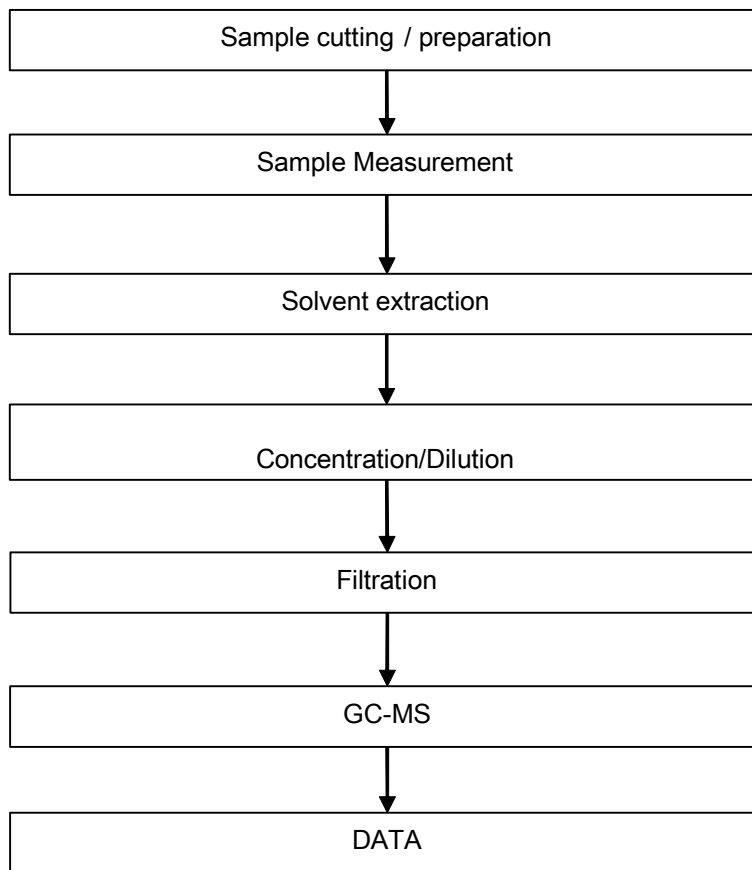


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Phthalates Testing Flow Chart



Test Report

No. CANEC2124348309

Date: 10 Jan 2022

Page 6 of 6

Sample photo:



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*** End of Report ***



Test Report

No.: ETR22105664

Date: 07-Feb-2022

Page: 1 of 7

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Name : ADHESIVE
Style/Item No. : G4000
Lot No. : 1B04

Sample Receiving Date : 24-Jan-2022
Testing Period : 24-Jan-2022 to 07-Feb-2022

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample(s).
(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.

Test Results : Please refer to following pages.


Troy Chang, Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: B7923889

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Test Report

No.: ETR22105664

Date: 07-Feb-2022

Page: 2 of 7

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Test Part Description

No.1 : TRANSPARENT DOUBLE SIDED ADHESIVE (EXCLUDING THE RELEASE LINER)

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result |
|--|---|-------|-----|--------|
| | | | | No.1 |
| Cadmium (Cd) (CAS No.: 7440-43-9) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |
| Lead (Pb) (CAS No.: 7439-92-1) | | mg/kg | 2 | n.d. |
| Mercury (Hg) (CAS No.: 7439-97-6) | With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |
| Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS. | mg/kg | 8 | n.d. |
| Monobromobiphenyl | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. |
| Dibromobiphenyl | | mg/kg | 5 | n.d. |
| Tribromobiphenyl | | mg/kg | 5 | n.d. |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. |
| Octabromobiphenyl | | mg/kg | 5 | n.d. |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. |
| Decabromobiphenyl | | mg/kg | 5 | n.d. |
| Sum of PBBs | | mg/kg | - | n.d. |
| Monobromodiphenyl ether | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Pentabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Hexabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Heptabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Octabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Nonabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Sum of PBDEs | | mg/kg | - | n.d. |

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Test Report

No.: ETR22105664

Date: 07-Feb-2022

Page: 3 of 7

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

| Test Item(s) | Method | Unit | MDL | Result |
|-------------------------------------|--|-------|-----|--------|
| | | | | No.1 |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | 195 |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |
| Iodine (I) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |

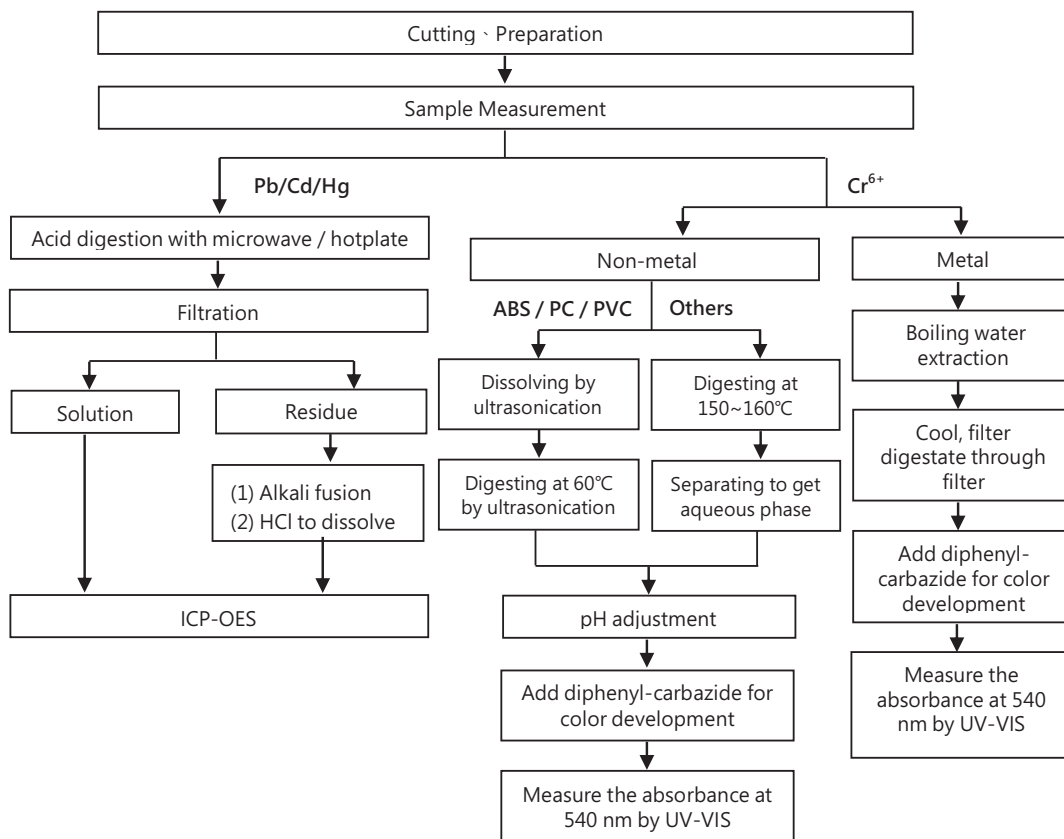
Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated

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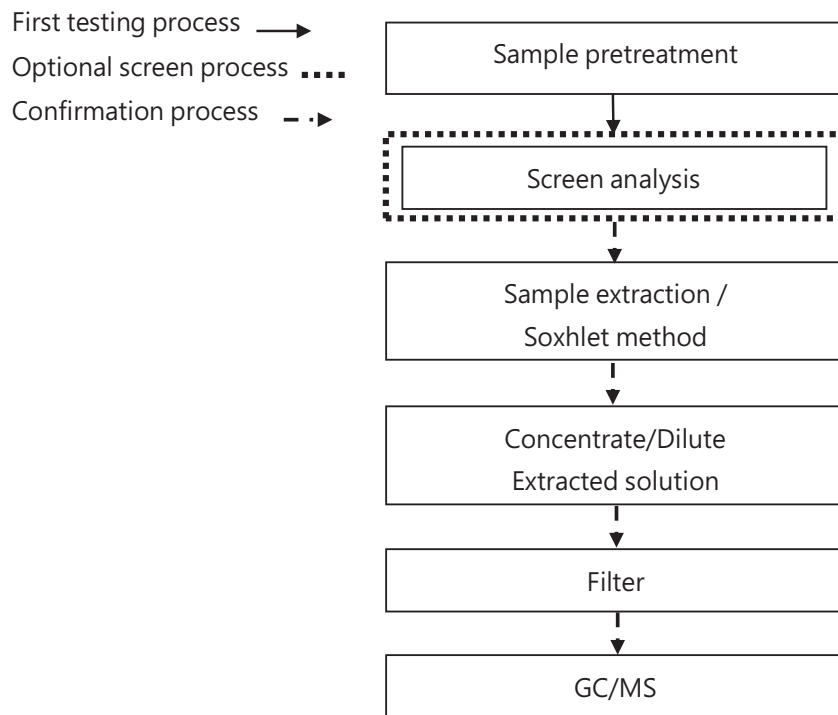
Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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Analytical flow chart – PBBs / PBDEs

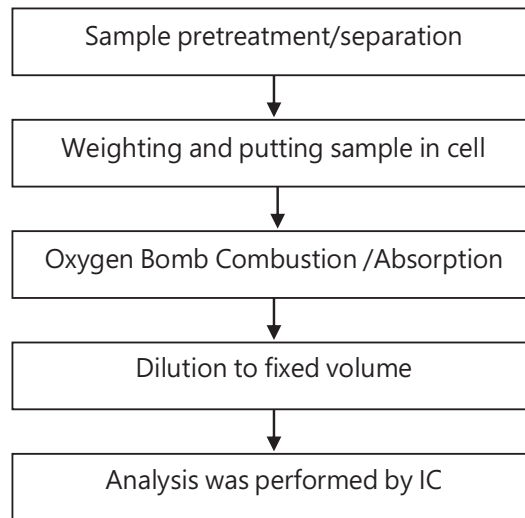


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DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Analytical flow chart of Halogen



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Test Report

No.: ETR22105664

Date: 07-Feb-2022

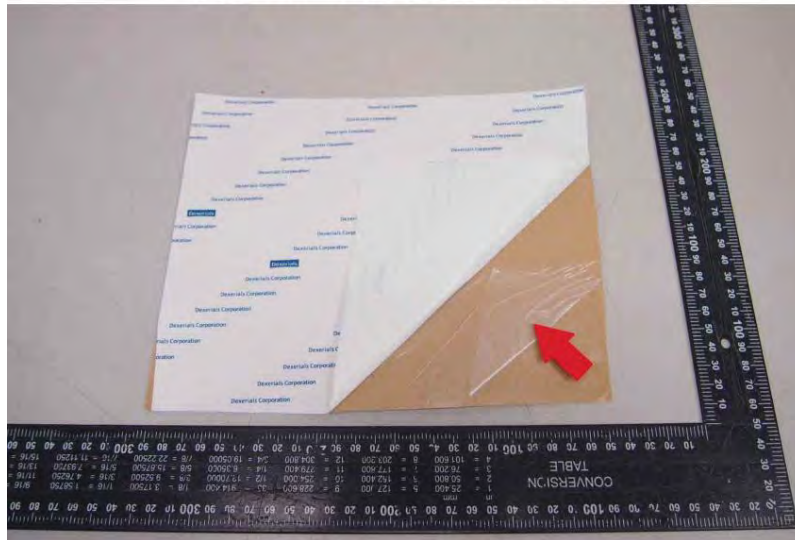
Page: 7 of 7

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR22105664



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Test Report

No.: ETR22105665

Date: 07-Feb-2022

Page: 1 of 5

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Name : ADHESIVE
Style/Item No. : G4000
Lot No. : 1B04

Sample Receiving Date : 24-Jan-2022
Testing Period : 24-Jan-2022 to 07-Feb-2022

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).
Test Results : Please refer to following pages.


Troy Chang, Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 1887E689

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Test Report

No.: ETR22105665

Date: 07-Feb-2022

Page: 2 of 5

DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Test Part Description

No.1 : TRANSPARENT DOUBLE SIDED ADHESIVE (EXCLUDING THE RELEASE LINER)

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result |
|---|---|-------|-----|--------|
| | | | | No.1 |
| Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Dibutyl phthalate (DBP) (CAS No.: 84-74-2) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Dimethyl phthalate (DMP) (CAS No.: 131-11-3) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-ethyl phthalate (DEP) (CAS No.: 84-66-2) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Antimony (Sb) (CAS No.: 7440-36-0) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)

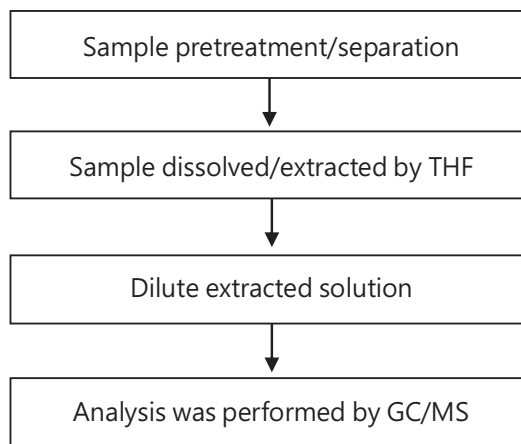
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DEXERIALS CORPORATION

1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】

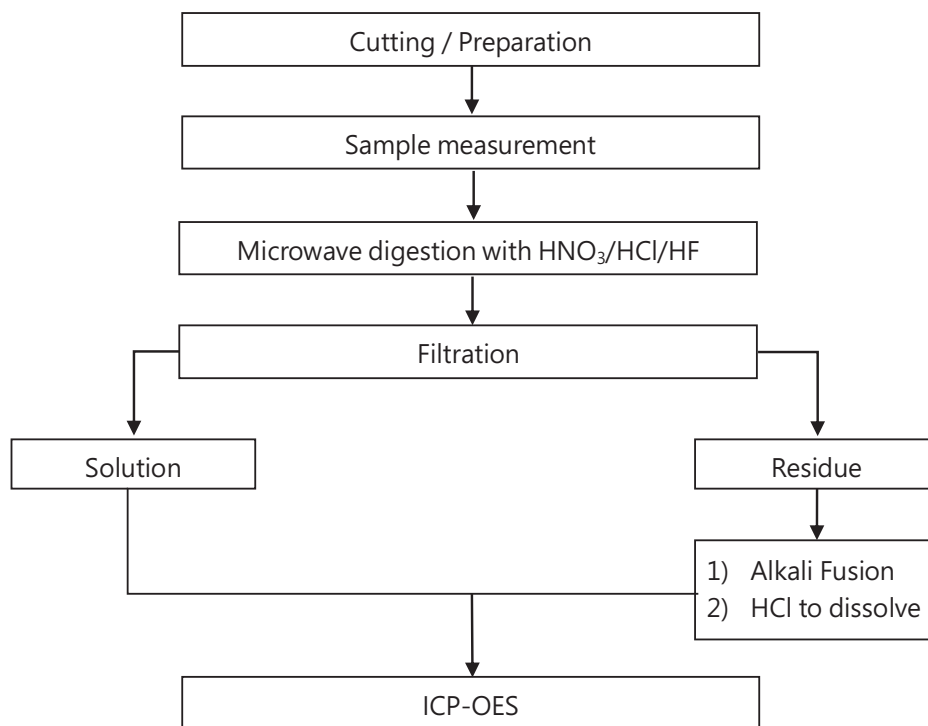


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Analytical flow chart of Elements (Heavy Metal included)

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

【 Reference method : US EPA 3051A · US EPA 3052 】



* US EPA 3051A method does not add HF.

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RoHs 排外條款說明

RoHs Exclusive item Hazardous Substance

本公司保證，本產品均屬環保產品，皆符合 RoHs 法規要求，並適用於 RoHs 規定之排除條款。

We hereby confirm and assure that all parts and sub-materials delivered to your company with RoHs Standard and apply to RoHs Exclusive item.

RoHs 合金類排除條款如下：

RoHs Exclusive item:

| 合金種類 alloys item | 鉛允許含量(ppm) Lead acceptance concentration |
|--|---|
| 鋼材 steel | < 3,500ppm |
| 鋁合金 aluminum alloys | < 4,000ppm |
| 銅合金 copper alloys | < 40,000ppm |
| 高鎔點錒料(有鉛焊錫) Lead in high melting temperature type solder | ≥ 85,000 PPM |

公司名稱：譚裕實業股份有限公司

Company name: WHA YU INDUSTRIAL CO., LTD

公司地址：新竹市公道五路二段 326 號

Company address: No.326, Sec 2, Kung Tao 5 Road, Hsin Chu City, Taiwan

連絡電話：03-5714225

TEL: +886-3-5714225

負責人：林祺生 董事長

Sign by:

立約日期：2017.06.20

Date: 2017/06/20

