

Test Report

No.: CANEC23003359603

Date: May 26, 2023

Page 1 of 9

Client Name: TAIXING LONGTENG ELECTRONIC CO.,LTD.

Client Address: TAIXING LONGTENG ELECTRONICS CO., LTD. SOUTH FACTORY, EAST FACTORY

Sample Name: LEAD FRAME

Model No.: TO-252

Client Ref. Information: Please see attachments

The above sample(s) and information were provided by the client.

SGS Job No.: SZP23-002181

Sample Receiving Date: May 22, 2023

Testing Period: May 22, 2023 ~ May 25, 2023

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Arsene Ye

Arsene Ye
Approved Signatory

scan to see the report



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Guangzhou Branch

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Page 2 of 9

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0033596-0001.C001	Copper-colored metal with silvery plating

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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

Test Item(s)	Limit	Unit(s)	MDL	A1
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/cm²	0.10	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND



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Guangzhou Branch: Guangzhou Standards Technical Laboratory

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Test Report

No.: CANEC23003359603

Date: May 26, 2023

Page 3 of 9

Test Item(s)	Limit	Unit(s)	MDL	A1
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.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm².
The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²).
The coating is considered a non-Cr(VI) 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.

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



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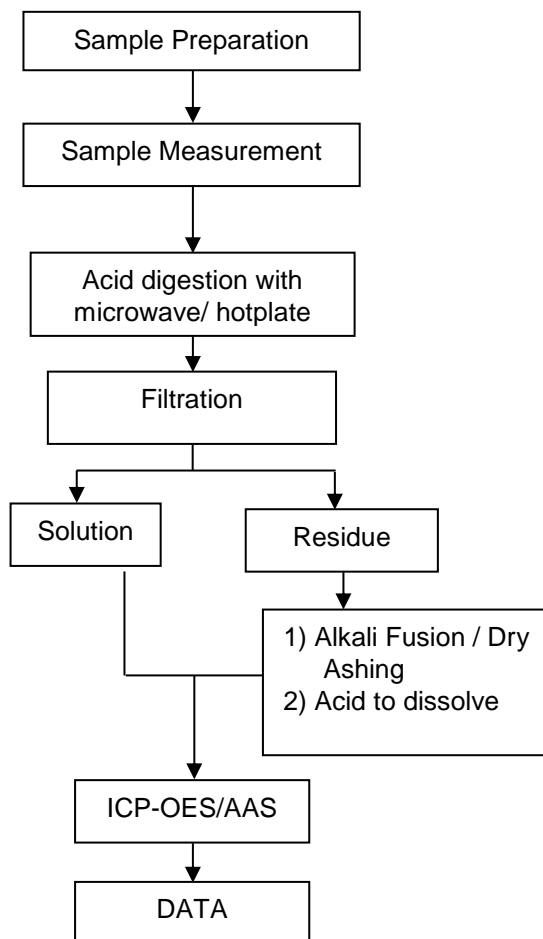
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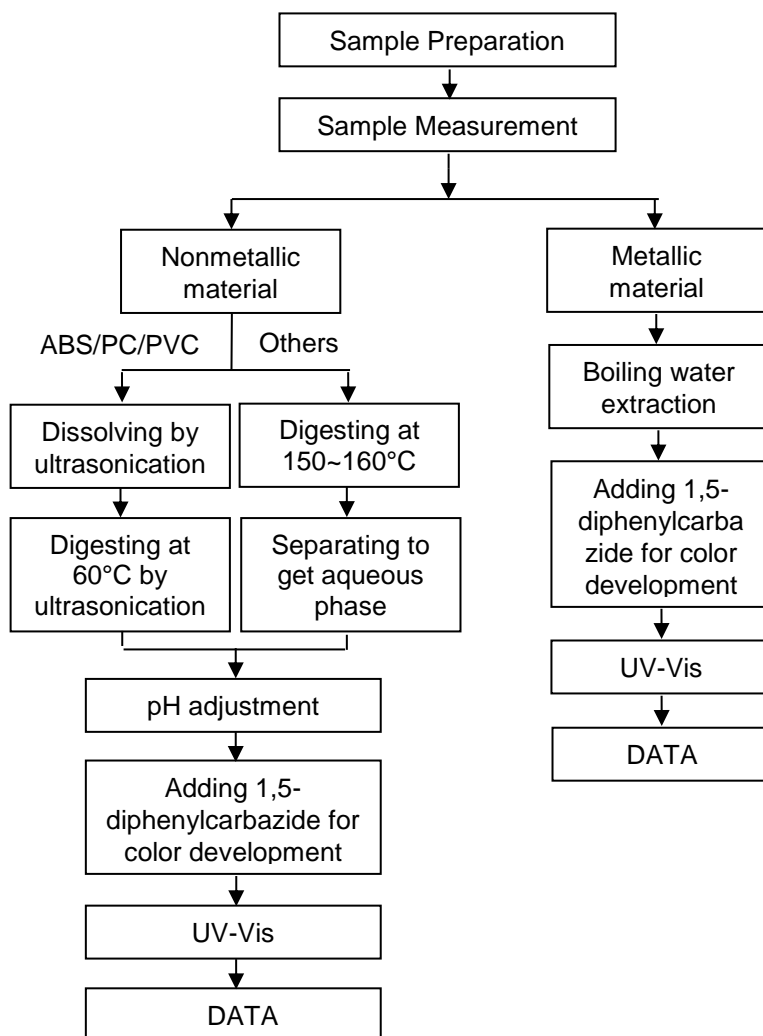
Elements Testing Flow Chart

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



ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



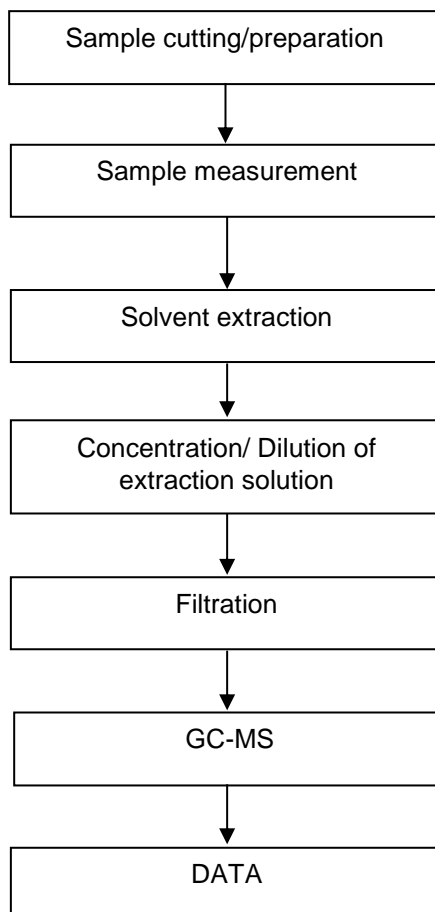
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No.: CANEC23003359603

Date: May 26, 2023

Page 6 of 9

PBBs/PBDEs Testing Flow Chart



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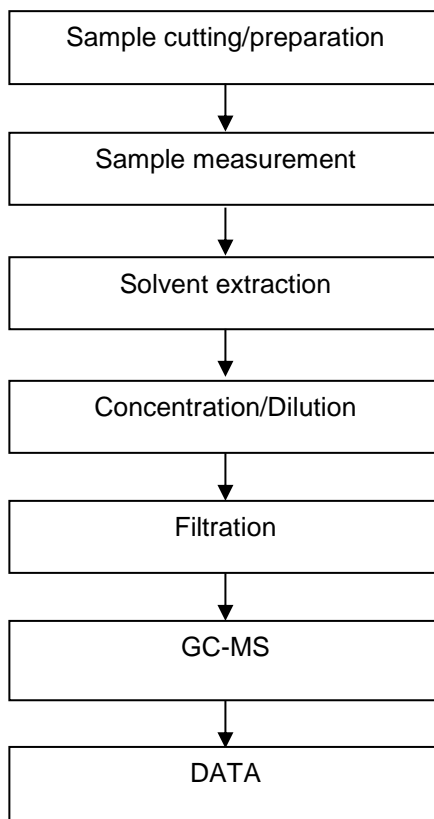
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Phthalates Testing Flow Chart



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Test Report

No.: CANEC23003359603

Date: May 26, 2023

Page 8 of 9

Attachment:

TO-126Cu, TO-126P, TO-126W-2D, TO-126D, TO-126F, TO-126-0.4-LT, TO-126S-0.4-LT, TO-126W, TO-126WD, TO-126H, TO-126DS, TO-126WT, TO-126-2R, TO-220AB, TO-220, TO-220C/CJ/CB/H, TO-220HW, TO-263, TO-220EW-X, TO-220EW-K, TO-220ST, TO-220SD-H, TO-220FY, TO-220FY-G, TO-220FY-2R, TO-263-3L, TO-263-5L, TO-220AB, TO-220, TO-220C/CJ/CB/H, TO-220HW, TO-263, TO-220EW-X, TO-220EW-K, TO-220ST, TO-220SD-H, TO-220FY, TO-220FY-G, TO-220FY-2R, TO-263-3L, TO-263-5L, TO-220P, TO-263-7L, TO-220MF-K2, TO-263-3L, TO-220/263-PLUS, TO-220FM-DK-2, TO-220/263-2R, SM10, TO-3PL, TO-3PB, TO-3PN, TO-247S, TO-247HW, TO-3P, TO-247PLUS, TO-247-3L-A, TO-3PB-A, TO-3PN-A, TO-3PLH, TO-264, TO-247-4L, TO-247-2L, TO-2474LPLUS, TO-252, TO-252A, TO-252D, TO-252C, TO-252Y, TO-252JQ, TO-252M, TO-252YH, TO-251HW, TO-252-4L, TO-251D, IPAK.DPAK, IPAK-A, IPAK-W, DPAK (4PAI) DGJ0.8, TO-252-5R, TO-252-8R, TO-252-6R, TO-252-4R, TO-252-5L, TO-263-7L, SOT 89-3L/5L-14R, DIP24, DIP23, TO-92SDDY, TO-92Ng-CU, TO-92, TO-92(2087), TO-94C, TO-92S-3, TO-92A-DY, TO-92B-DY, TO-92D-DY, TO-237, TO-92DCZ, SIP-4, SIP-4L-10R, TO-92W, TO-92VDA, TO-92S-A, TO-92S-W, NP-JK, 92SF, SIP4L-12R, SOT89-5L, SOT89-3L, 94SX, DIP23, 252YHSPAI, TOLL, 263KWLC, 94C-4R (4PAI) , TOLT, TOLL, TOLL4-6, TOLL8XL, TO-92PFF, LQFP48, LQFP32, LQFP64, SOT-23, SOT23-27R, SOD1238R, SOD-323, SOT363



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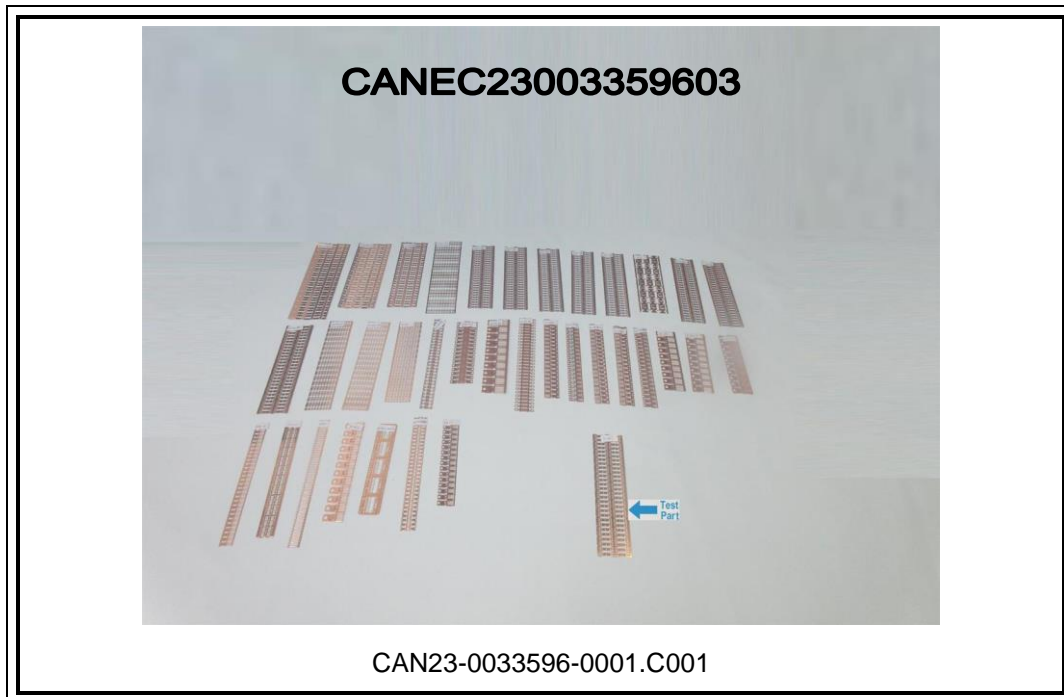
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No.: CANEC23003359603

Date: May 26, 2023

Page 9 of 9

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