

Test Report

No.: CANEC24012352201

Date: Jun 21, 2024

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Client Name: ZHUHAI HONG JIA CHENG TECHNOLOGY CO.,LTD

Client Address: 2989 ZHUFENG AVENUE SOUTH, QIANWU TOWN, DOUMEN DISTRICT, ZHUHAI CITY

Sample Name: Rectifier diode

Client Ref. Information: R-1, R-3, R-6, DO-41, DO-15, DO-201AD, DO-201AE, LL-34, LL-41, SMA, SMB, SMC, SMAF, SMBF, SMG, SME, SOD-123, SOD-123FL, SOD-323FL, SOD-123HE, SOD-323HE, SOD-323S, SOT-23, SOT23-3L, SOT-23-5L, SOT-23-6L, SOT-363, SOT-323, SOT-523, SOT-563, SOT-723, SOD-723, SOD-323, SOD-523, SOP-8, SOP-7, SOT-353, SOT-553, SOT-343, SOD-882, SOT-143, SOT-223, SOT-89, TO-92, TO-277, DO-218, TO-263, TO-263-6L, TO-252, TO-251, TO-220AB, TO-220AC, ITO-220AB, ITO-220AC, TO-247AB, TO-247AC, TO-247-4L, TO-247-2L, DFN0603-2L, DFN1006-2L, DFN1006-3L, DFN1610-2L, DFN2020-3L, DFN2020-6L, DFN2030-6L, DFN2030-8L, DFN2510-10L, DFN2710-10L, QFN3030-16L, DFN3333, QFN4040-20L, PDFN5060, PDFN5060-8L, DFN5060-8L, QFN6050-10L, QFN6060-48L, 2KBJ, 4KBJ, 6KBJ, PB, ABS, D3K, DBS, DB, DBLS, DBL, GBP, GBU, GBJ, JA, JB, JC, MBLs, MBS, UMB, UMSB, KBP, KBU, KBL, TSB, GBPC-W, GBPC, KBPC-W, KBPC, KBPC1, KBPC-6, KBPC8

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

SGS Job No.: GZP24-013189

Sample Receiving Date: Jun 11, 2024

Testing Period: Jun 11, 2024 ~ Jun 17, 2024

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

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



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Guangzhou Branch Technical Services Laboratory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0123522-0001.C001	Black body with silvery metal pin(mix all*)

Remarks:

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

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

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

Test Item(s)	Unit(s)	MDL	A1
Lead (Pb)	mg/kg	2	7705▲
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybromobiphenyl (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	5	ND



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Guangzhou Branch

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Test Item(s)	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	mg/kg	50	ND

Remark1: *The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Remark2: ▲According to the declaration from the client, Lead (Pb) in No.A1 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

Remark3: ▲According to the declaration from the client, Lead (Pb) in No.A1 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

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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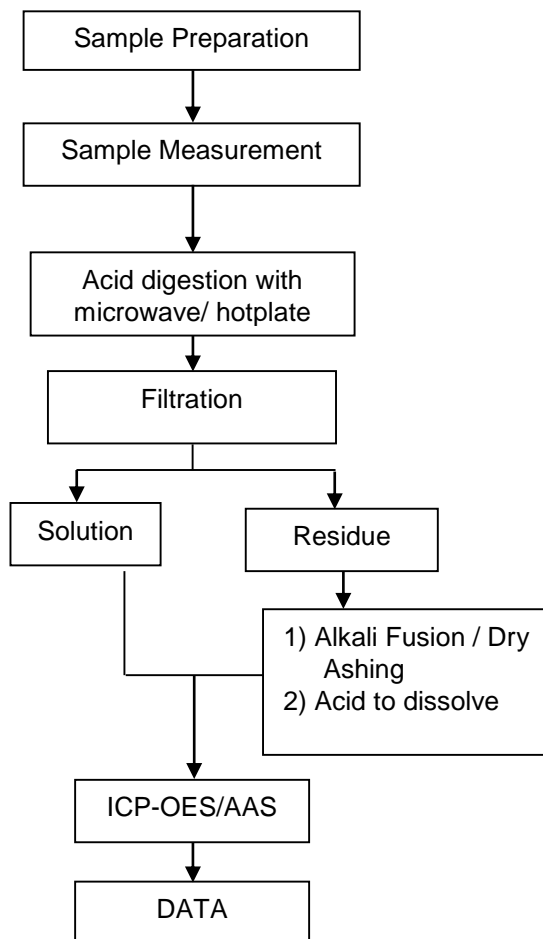
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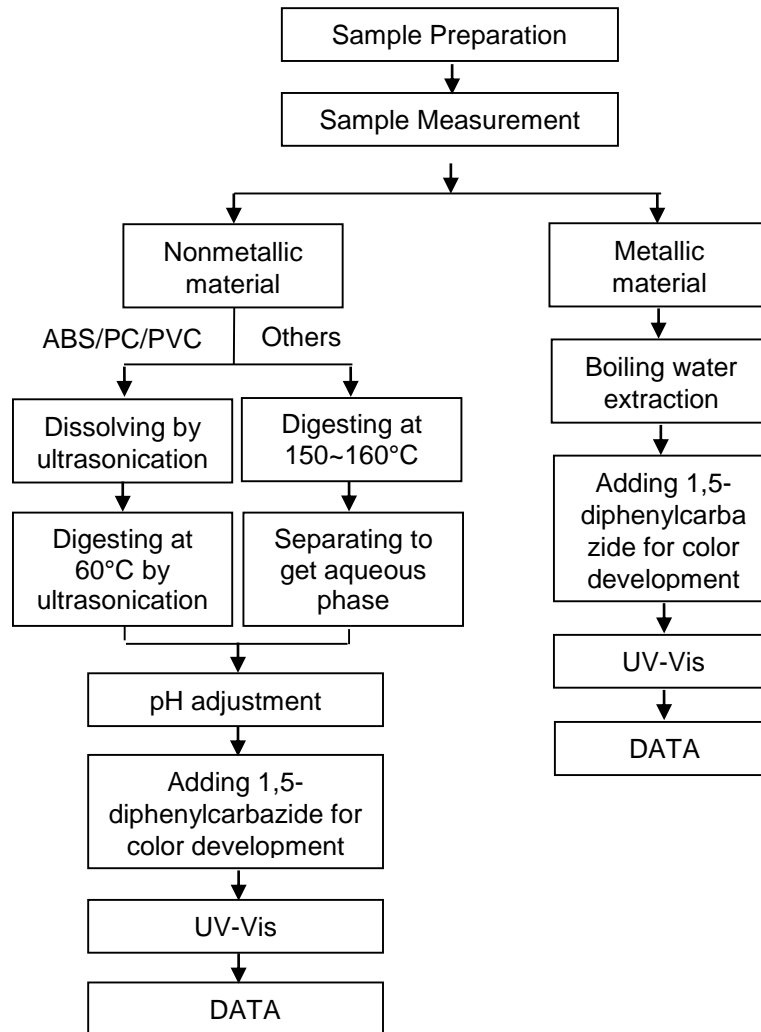
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Elements Testing Flow Chart

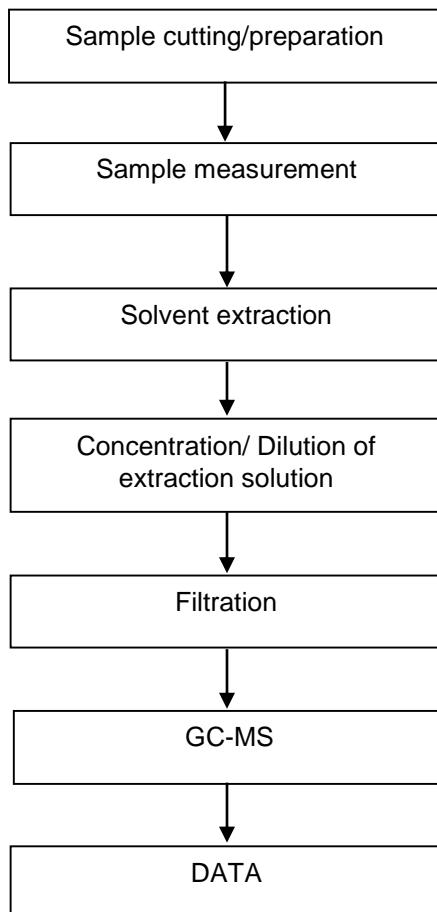
These samples were dissolved totally by pre-conditioning method according to below flow chart.



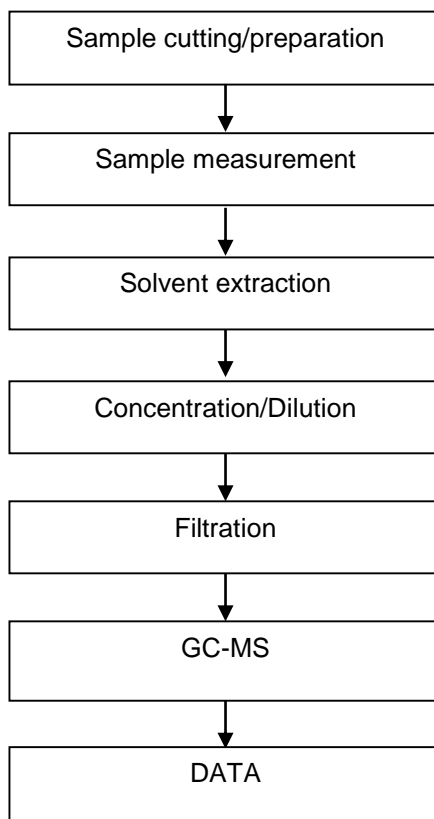
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE Testing Flow Chart



Phthalates Testing Flow Chart



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Sample Photo:



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*** End of Report ***



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