

Test Report

No. CANEC2207064201

Date: 05 May 2022

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Client Name : WINDAY ELECTRONIC(DONG GUAN) CO.,LTD

Client Address : LONG QUAN INDUSTRY XIN-JIU-WEI TERRITORY LIAO BU VILLAGE DONGGUAN CITY
GUANGDONG CHINA

Sample Name : METALLIZEDFILM CAPACITOR

Material No. : MPP

Model No. : MPP

Client Ref. Info. : MEF, MEM,, MPM, PEN, MPH, MEH, PPN, MPPS, MTF, MTP, PSM,
MMS, MPJ, MPA, MPT, MEA, MET,, EMPP, EMPE, TMPE, FMPE,
DMPE, DMPP, PEM, PEI, PPI, TMPE, TMPP, EPPEM, MPEM

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

SGS Job No. : CP22-019298 - SZ

Date of Sample Received : 19 Apr 2022

Testing Period : 19 Apr 2022 - 27 Apr 2022

Test Requested : Selected 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).

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

Sasa zhi

Sasa Zhi
Approved Signatory

scan to see the report



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Guangzhou Branch Testing Center Chemical Laboratory.

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-070642.001	Red material 1#
SN2	CAN22-070642.002	Colorless transparent film with silvery surface 2#
SN3	CAN22-070642.003	Silvery solder with gray material (mixed) 3#
SN4	CAN22-070642.004	Silvery metal 4#
SN5	CAN22-070642.005	METALLIZEDFILM CAPACITOR(mixed)

Remarks :

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

Elemental analysis, Hexavalent Chromium(Cr(VI)), Flame Retardants, Phthalates

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)	Unit	MDL	001	002	003
Cadmium (Cd)	mg/kg	2	ND	ND	ND
Lead (Pb)	mg/kg	2	ND	ND	24
Mercury (Hg)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND	ND	ND
Sum of PBBs	mg/kg	-	ND	ND	ND
Monobromobiphenyl	mg/kg	5	ND	ND	ND
Dibromobiphenyl	mg/kg	5	ND	ND	ND
Tribromobiphenyl	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	mg/kg	5	ND	ND	ND
Octabromobiphenyl	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	mg/kg	5	ND	ND	ND
Decabromobiphenyl	mg/kg	5	ND	ND	ND
Sum of PBDEs	mg/kg	-	ND	ND	ND



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Test Item(s)	Unit	MDL	001	002	003
Monobromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND	ND	ND

Elemental analysis, Hexavalent Chromium(Cr(VI))

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)	Unit	MDL	004
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	µg/cm ²	0.10	ND

Notes :

- 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
 - 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
 - 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.

Halogen

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



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Red Phosphor

Test Method : SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>
Red phosphorus	mg/kg	500	ND	ND

Remark: The sample(s) 003, 005 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.

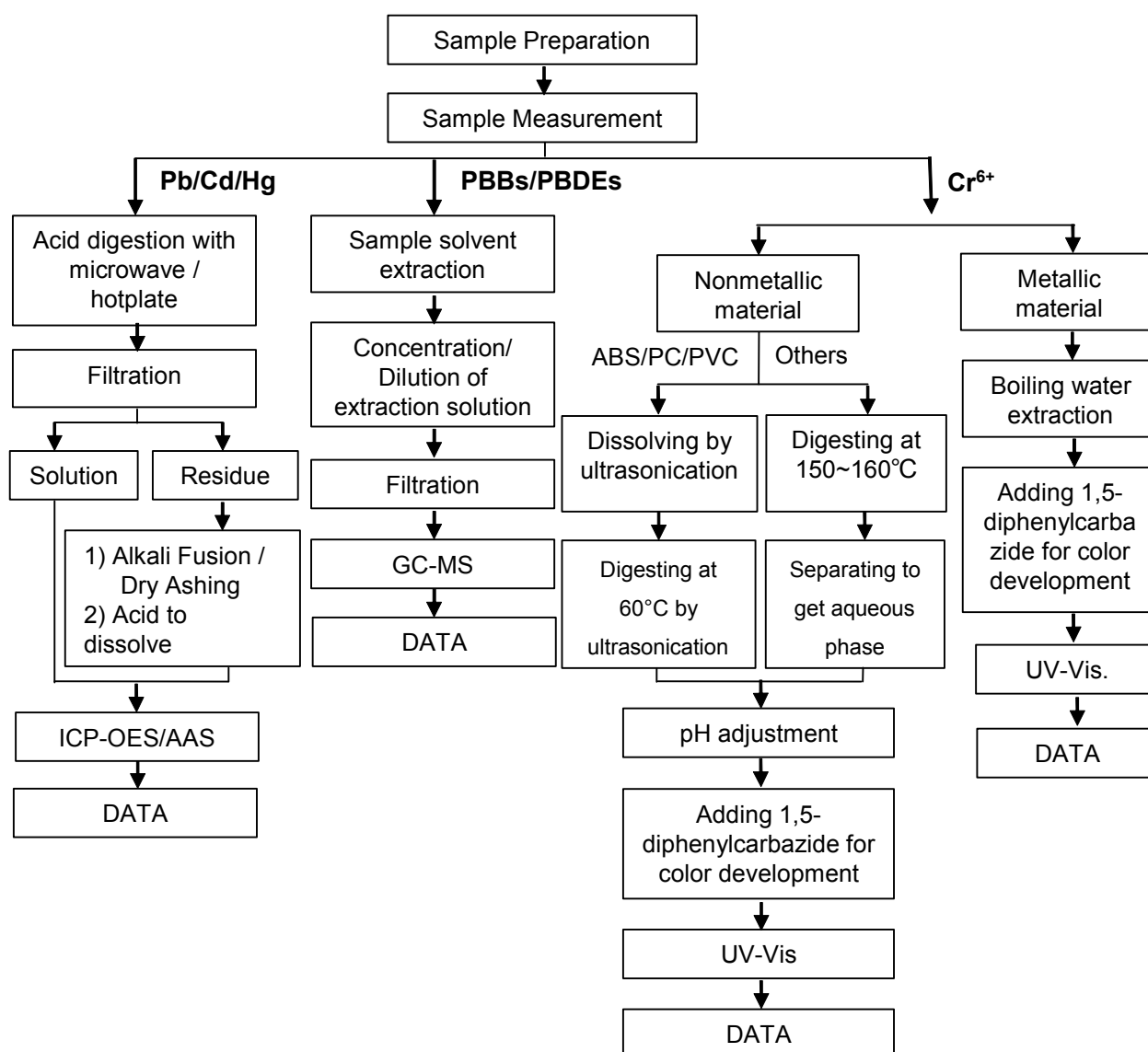
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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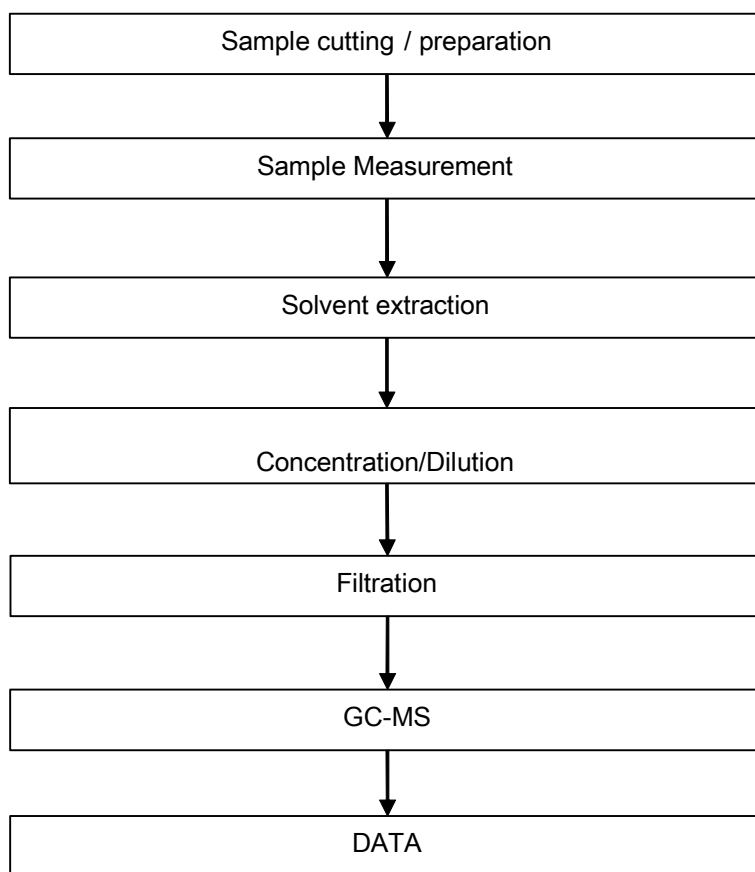
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

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



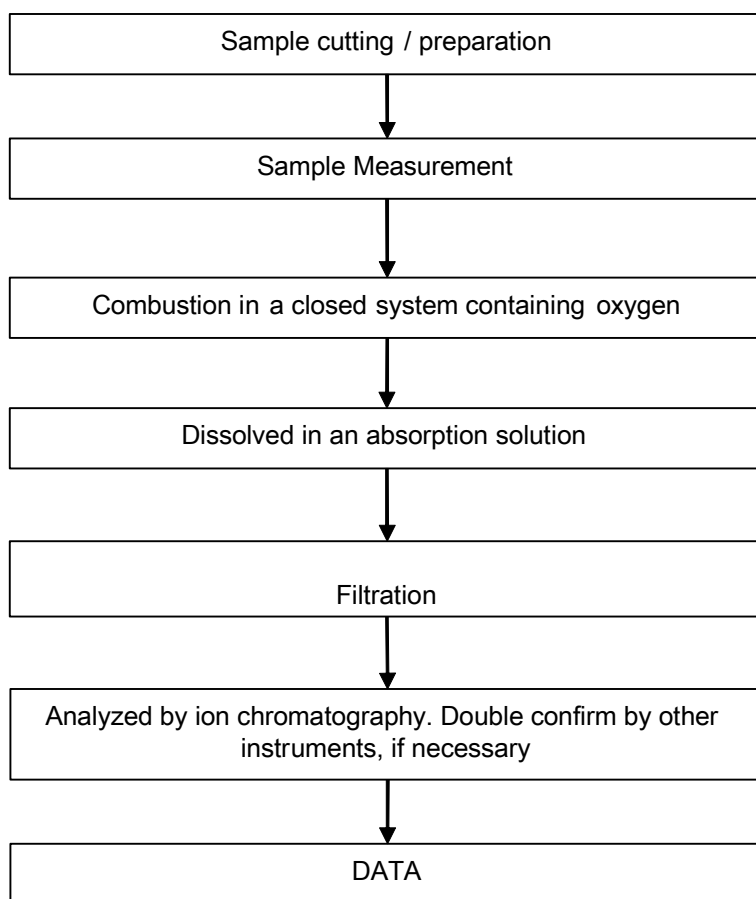
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Phthalates Testing Flow Chart



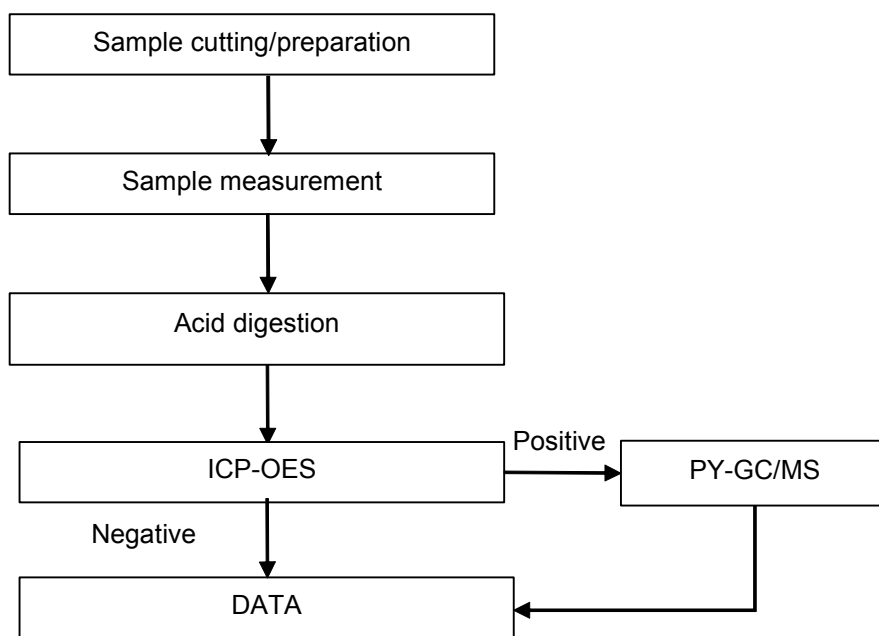
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Halogen Testing Flow Chart



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Red phosphorus Testing Flow Chart



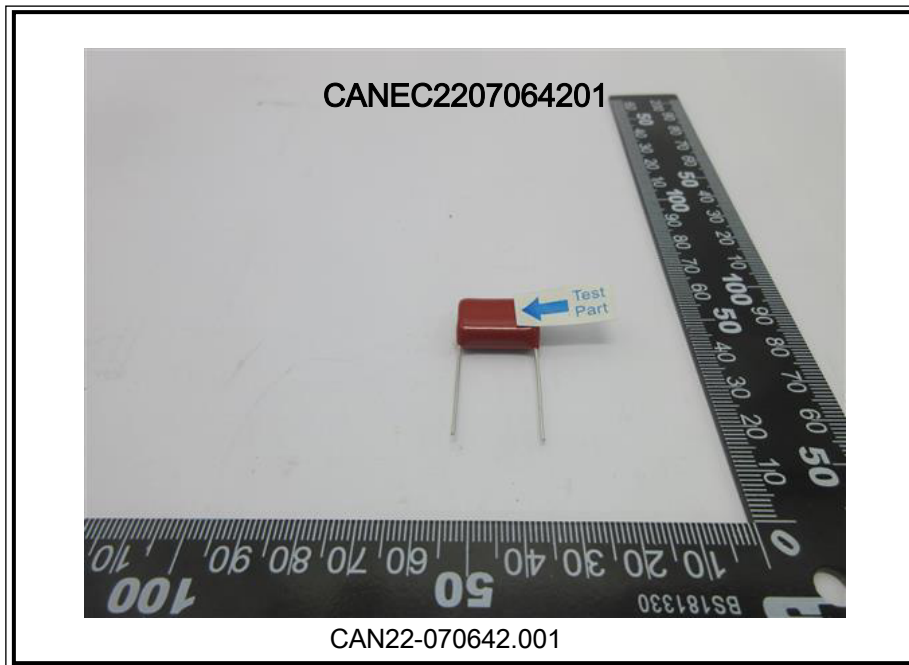
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Sample photo:



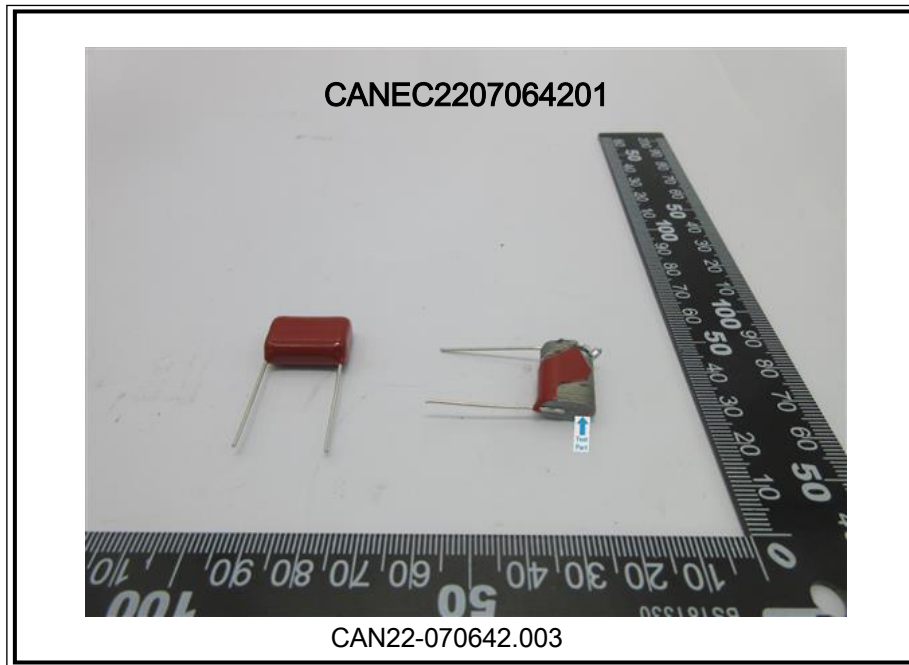
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