

Test Report No. CANEC2309250701 Date: 25 Aug 2023 Page 1 of 13

Client Name: LELON ELECTRONICS CORP./LELON ELECTRONICS (HUIZHOU) CO.,LTD./LELON

ELECTRONICS (SUZHOU) CO.,LTD./LELON ELECTRONICS TECHNOLOGY (SUZHOU)

CO.,LTD.

Client Address: 147, SEC. 1, GUOGUANG RD., DALI DISTRICT, TAICHUNG, TAIWAN

TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY,

GUANGDONG, CHINA

1220, ZHONGSHAN NORTH RD., WUJIANG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT

ZONE SUZHOU CITY, JIANGSU, CHINA

788,XINZI ROAD, WUJIANG ECONOMIC TECHNOLOGICAL DEVELOPMENT ZONE,SUZHOU

CITY, JIANGSU, CHINA

Sample Name: Used for Organic Conductive Polymer Capacitors

Model No.: Radial Type

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

SGS Job No. : SZP23-009342 - SZ

Date of Sample Received: 26 Jul 2023

Testing Period : 26 Jul 2023 - 09 Aug 2023

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).

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

Jessieli

Jessie Li

Approved Signatory





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Test Result(s):

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN23-092507.001	Gray metal(said to be AL FOIL)
SN2	CAN23-092507.002	Silvery surfaced metal(said to be AL CASE)
SN3	CAN23-092507.003	Silvery plated metal pin(said to be LEAD WIRE)
SN4	CAN23-092507.004	White paper(said to be ELECTROLYTIC PAPER)
SN5	CAN23-092507.005	Brown adhesive tape(said to be ADHESIVE TAPE)
SN6	CAN23-092507.006	Black rubber(said to be RUBBER IIR)
SN7	CAN23-092507.007	Blue paste(said to be UV INK BLUE)
SN8	CAN23-092507.008	Black material(said to be ELECTROLYTE)

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+A1:2017, IEC 62321-5:2013, 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)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	9	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	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	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
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	
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
- (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 $0.10~\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/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.

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+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.





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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND	ND	ND
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)	1,000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	
Tribromobiphenyl	-	mg/kg	5	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	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) 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.

<u>Halogen</u>

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>004</u>	<u>005</u>
Chlorine (CI)	mg/kg	50	ND	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND





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Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>
Chlorine (CI)	mg/kg	50	ND	180	ND
Bromine (Br)	mg/kg	50	ND	ND	ND

Phthalate(s)

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>002</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>004</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>005</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>006</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>007</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	<u>MDL</u> 0.005	<u>008</u> ND

Remark 1: Results & photo(s) of 001,003,004,006 in this report refer to 001,003,004,006 in test report CANEC2308865208.

Results & photo(s) of 002,005 in this report refer to 002,005 in test report CANEC2309061706.

Remark 2: The result(s) of 007 shown is/are of the total weight of dried sample. Client requested drying condition:Drying temperature: 250°C, Drying time: 5h.

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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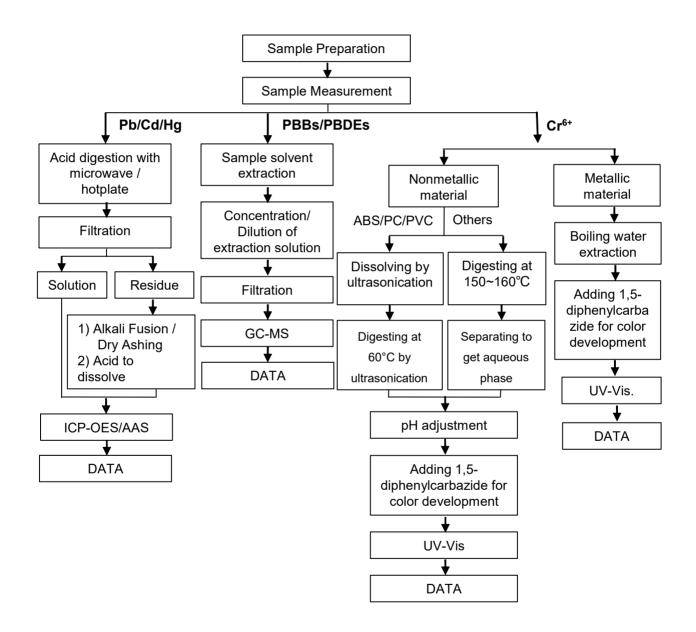
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ATTACHMENTS

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).







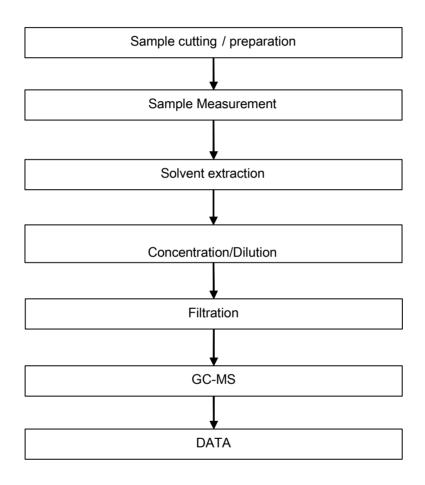
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ATTACHMENTS

Phthalates Testing Flow Chart







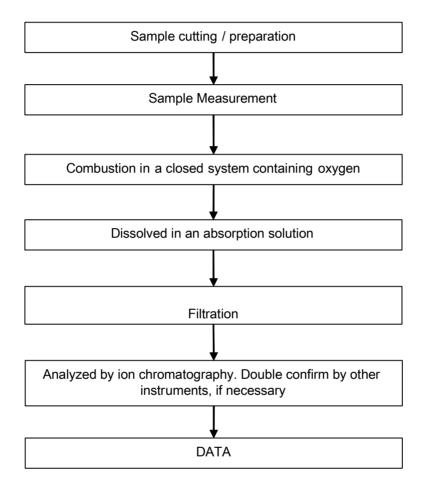
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Halogen Testing Flow Chart





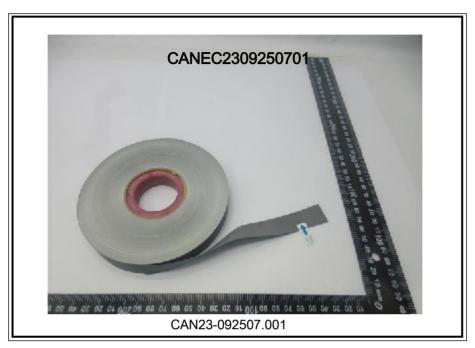


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Sample photo:





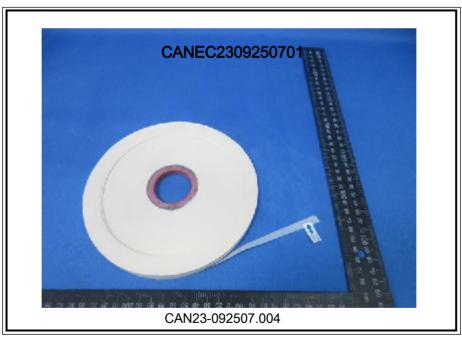




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