

Test Report No. CANEC2309065506 Date: 04 Aug 2023 Page 1 of 20

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 Aluminum Electrolytic Capacitors

Model No.: Snap-in Terminal Type

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

#### This report is to supersede test report CANEC2309065501

SGS Job No.: SZP23-009342 - SZ

Date of Sample Received: 18 Jul 2023

Testing Period: 18 Jul 2023 - 26 Jul 2023

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

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

Zm guan

Approved Signatory

Luguan





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Test Result(s):

#### Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN23-090655.001	Gray metal(said to be AL FOIL)
SN2	CAN23-090655.002	Silvery metal(said to be AL CASE)
SN3	CAN23-090655.003	Silvery metal terminal(said to be TERMINAL LUG)
SN4	CAN23-090655.004	Silvery metal foil(said to be TAB)
SN5	CAN23-090655.005	Silvery metal washer(said to be AL WASHER)
SN6	CAN23-090655.006	Silvery metal rivet(said to be AL RIVET)
SN7	CAN23-090655.007	White paper(said to be ELECTROLYTIC PAPER)
SN8	CAN23-090655.008	Brown material(said to be BAKELITE COVERING)
SN9	CAN23-090655.009	Black rubber(said to be RUBBER COVERING)
SN10	CAN23-090655.010	Colorless transparent adhesive tape(said to be ADHESIVE TAPE)
SN11	CAN23-090655.011	Black plastic(said to be PET SLEEVE BLACK)
SN12	CAN23-090655.012	Brown plastic(said to be PET SLEEVE BROWN)
SN13	CAN23-090655.013	Black plastic(said to be PE SLEEVE BLACK)
SN14	CAN23-090655.014	Brown material(said to be BOTTOM DISK BROWN)
SN15	CAN23-090655.015	Black adhesive material(said to be BOTTOM DISK BLACK)
SN16	CAN23-090655.016	White paste(said to be INK WHITE)
SN17	CAN23-090655.017	Colorless transparent liquid (said to be ELECTROLYTE EG)

#### 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 and Hexavalent chromium

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)	<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	4	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND



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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 (Cr(VI))▼	-	μg/cm²	0.10	ND	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) ▼= 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<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm^2$  and 0.13  $\mu g/cm^2$  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.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
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>010</u>	<u>011</u>	<u>012</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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</u>
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>013</u>	<u>014</u>	<u>015</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



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>013</u>	<u>014</u>	<u>015</u>
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>016</u>	<u>017</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	
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



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devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

## **Halogen**

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

Test Item(s) Chlorine (CI) Bromine (Br)	<u>Unit</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Chlorine (Cl) Bromine (Br)	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</u>
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Chlorine (CI) Bromine (Br)	<u>Unit</u>	MDL	<u>013</u>	<u>014</u>	<u>015</u>
	mg/kg	50	ND	ND	ND
	mg/kg	50	ND	ND	ND
Test Item(s) Chlorine (CI) Bromine (Br)	<u>Unit</u> mg/kg mg/kg	MDL 50 50	<u>016</u> ND ND	<u>017</u> ND ND	

#### Phthalate(s)

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

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>800</u>
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.005	ND
	68515-48-0			





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<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 68515-48-0	· · · · · · · · · · · · · · · · · · ·	MDL 0.005	<u>009</u> ND
Test Item(s) Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	·	<u>MDL</u> 0.005	<u>010</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)	MDL 0.005	<u>011</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 68515-48-0	· · · · · · · · · · · · · · · · · · ·	<u>MDL</u> 0.005	<u>012</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0		<u>MDL</u> 0.005	<u>013</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>014</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	· · · · · · · · · · · · · · · · · · ·	<u>MDL</u> 0.005	<u>015</u> ND
<u>Test Item(s)</u> Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0		<u>MDL</u> 0.005	<u>016</u> ND
Test Item(s) Diisononyl Phthalate (DINP)	<u>CAS NO.</u> 28553-12-0 / 68515-48-0	<u>Unit</u> %(w/w)	MDL 0.005	<u>017</u> ND

Remark1: The result(s) 016 shown is/are of the total weight of dried sample. Remark2: Results & photo(s) of 001/007/010/011/012/016/017 in this report refer to 001/004/005/009/010/015/019 in test report CANEC2308865200.

This report updates Client Address, Model No..

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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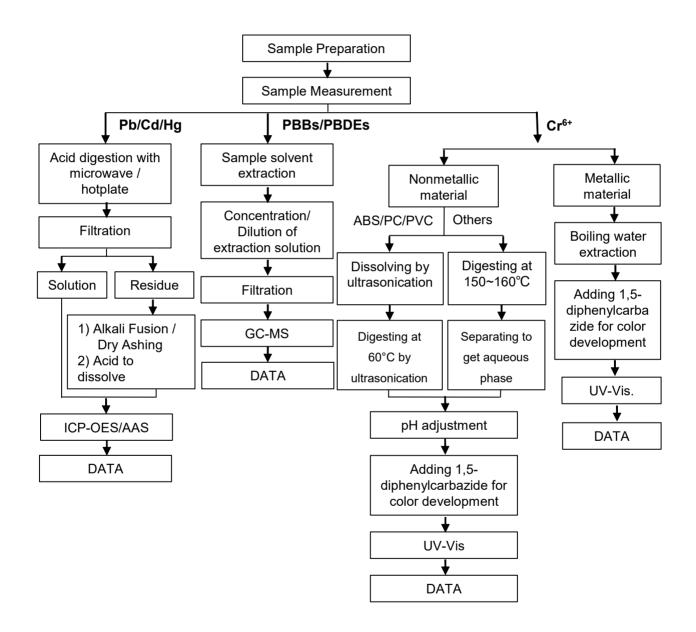
Date: 04 Aug 2023

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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. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).







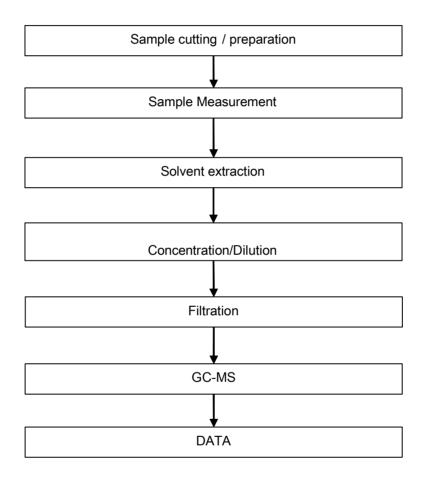
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#### **ATTACHMENTS**

## **Phthalates Testing Flow Chart**







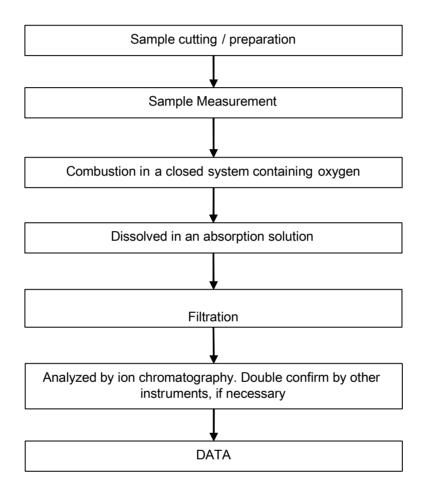
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#### **ATTACHMENTS**

## **Halogen Testing Flow Chart**







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Sample photo:





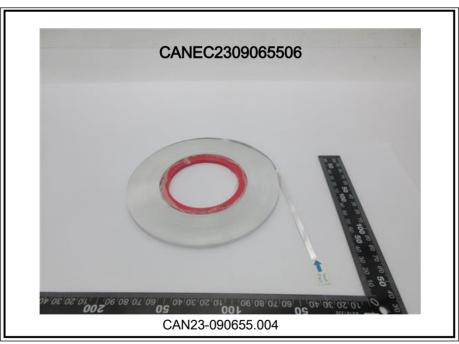




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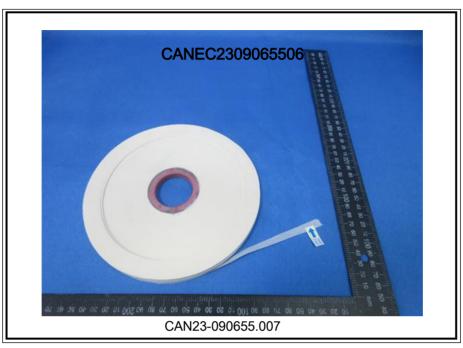






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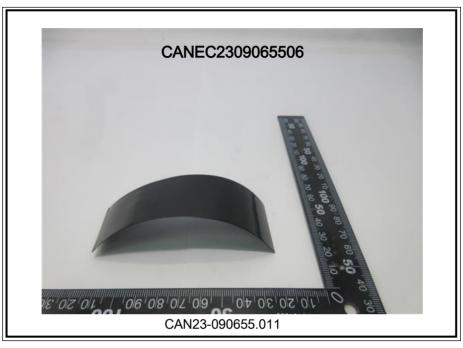
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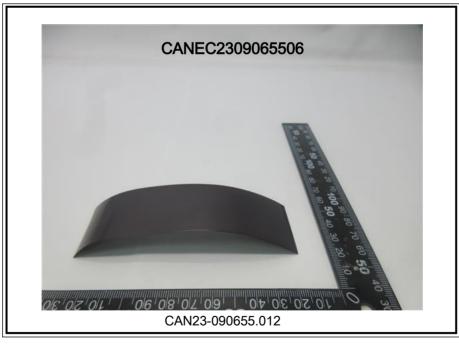
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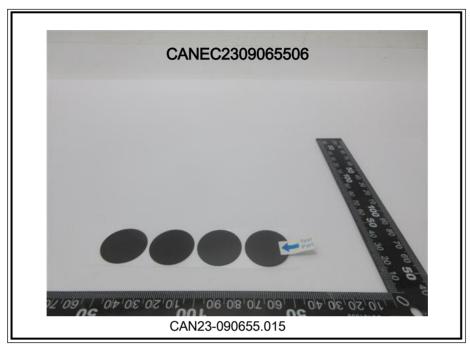




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