

Test Report

No. TSNEC2000513001

Date: 21 Apr 2020

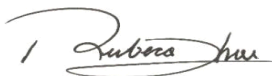
Page 1 of 15

LITE-ON ELECTRONICS(TIANJIN)CO.,LTD
NO.11,FU-YUAN ROAD,WUQING DEVELOPMENT AREA,TIANJIN,CHINA.

The following sample(s) was/were submitted and identified on behalf of the clients as : SMD LED

SGS Job No. : TP20-002074 - TJ
Client Ref. Info. : Material No.:LTST-XXX;LTSA-XXX
Date of Sample Received : 10 Apr 2020
Testing Period : 10 Apr 2020 - 17 Apr 2020
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN20-005130.001	white solid with coppery metal transparent solid & green printing(mix all)

Remarks :

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

Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs(Polybrominated biphenyls), PBDEs (Polybrominated biphenyl ethers)

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

Test Item(s)	Limit	Unit	MDL	001
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))	1000	mg/kg	8	ND
Sum of PBBs	1000	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
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	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



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No. TSNEC2000513001

Date: 21 Apr 2020

Page 3 of 15

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) 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.

(3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Halogen

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	528
Chlorine (Cl)	mg/kg	50	258
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Element(s)

Test Method : SGS in house method -TJChemLab-TOP-004-2 (With reference to US EPA 3052:1996 、 US EPA 3051A:2007 、 US EPA 6010C:2007), analyzed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND



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Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA) Content

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by LC/MSMS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane sulfonates (PFOS) and its derivatives^	10	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA)	-	mg/kg	0.01	ND

Notes :

- (1) Max. limit specified by European Regulation POPs (EU) 2019/1021.
- (2) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalates

Test Method : With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.005	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	% (w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	% (w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	% (w/w)	0.005	ND
Dimethyl Phthalate (DMP)	131-11-3	% (w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	% (w/w)	0.005	ND

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Test Report

No. TSNEC2000513001

Date: 21 Apr 2020

Page 5 of 15

Test Item(s)	CAS NO.	Unit	MDL	001
Dipropyl Phthalate (DPrP)	131-16-8	% (w/w)	0.005	ND
Diisobutyl Phthalate (DIBP)	84-69-5	% (w/w)	0.005	ND
Diundecyl Phthalate (DUDP)	3648-20-2	% (w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	% (w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	68515-50-4	% (w/w)	0.005	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	% (w/w)	0.005	ND
Diphenyl Phthalate (DPhP)	84-62-8	% (w/w)	0.005	ND
Dibenzyl Phthalate (DBzP)	523-31-9	% (w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	% (w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	% (w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	% (w/w)	0.005	ND
Diallyl Phthalate (DAP)	131-17-9	% (w/w)	0.005	ND
n-decyl, n-octyl Phthalate (nDnOP)	119-07-3	% (w/w)	0.005	ND
Di-n-decyl Phthalate (DnDP)	84-77-5	% (w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	% (w/w)	0.005	ND
n-pentyl Isopentyl phthalate (nPIPP)	776297-69-9	% (w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	% (w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	% (w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	% (w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	% (w/w)	0.005	ND
Di(2-ethylhexyl) adipate (DEHA)	103-23-1	% (w/w)	0.005	ND
Diisononyl adipate (DINA)	33703-08-1	% (w/w)	0.005	ND
Di-n-octyl adipate (DNOA)	123-79-5	% (w/w)	0.005	ND
Bis(4-methyl-2-pentyl) Phthalate (BMPP)	146-50-9	% (w/w)	0.005	ND
Bis(2-ethoxyethyl) Phthalate (DEEP)	605-54-9	% (w/w)	0.005	ND
Bis(2-n-butoxyethyl) Phthalate (DBEP)	117-83-9	% (w/w)	0.005	ND
Bis(2-ethylhexyl) terephthalate (DOTP)	6422-86-2	% (w/w)	0.005	ND
Di(2-propylheptyl) Phthalate (DPHP)	53306-54-0	% (w/w)	0.005	ND

Notes :

- (1) DBP, BBP, DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles.
 - ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1% by weight of the plasticised material shall not be placed on the market.



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Please refer to Regulation (EC) No 552/2009 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex

XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1% by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

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.

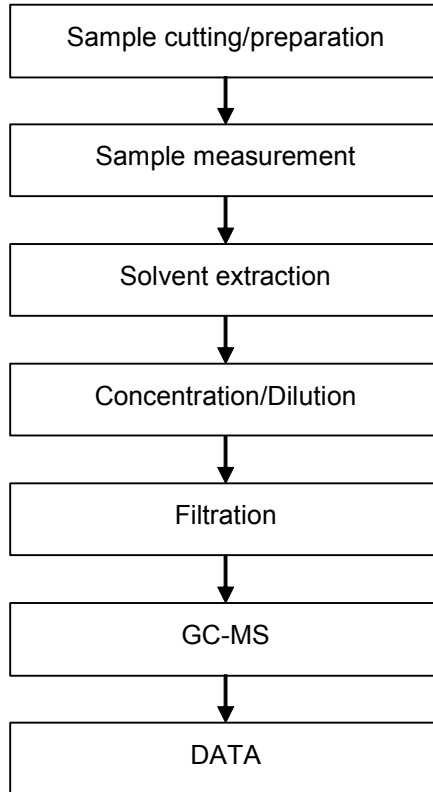


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HBCDD Testing Flow Chart



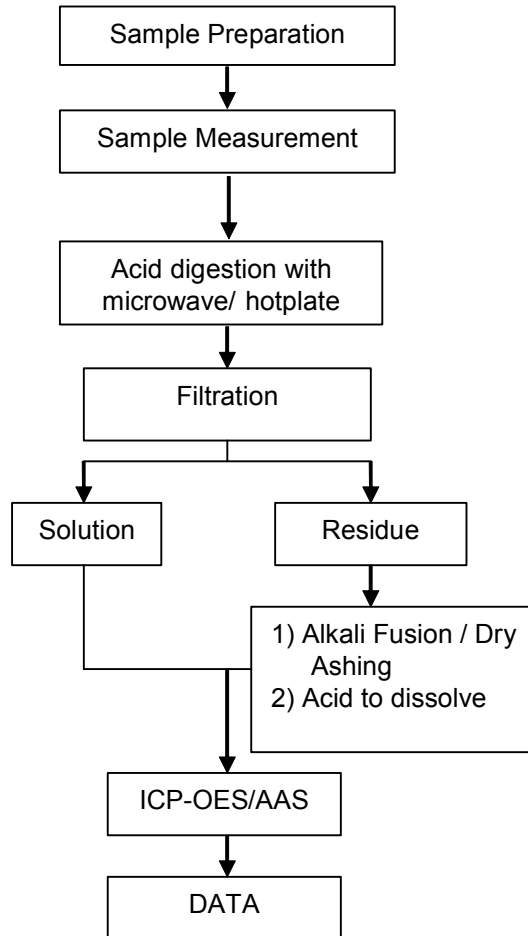
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Elements (IEC62321) Testing Flow Chart

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



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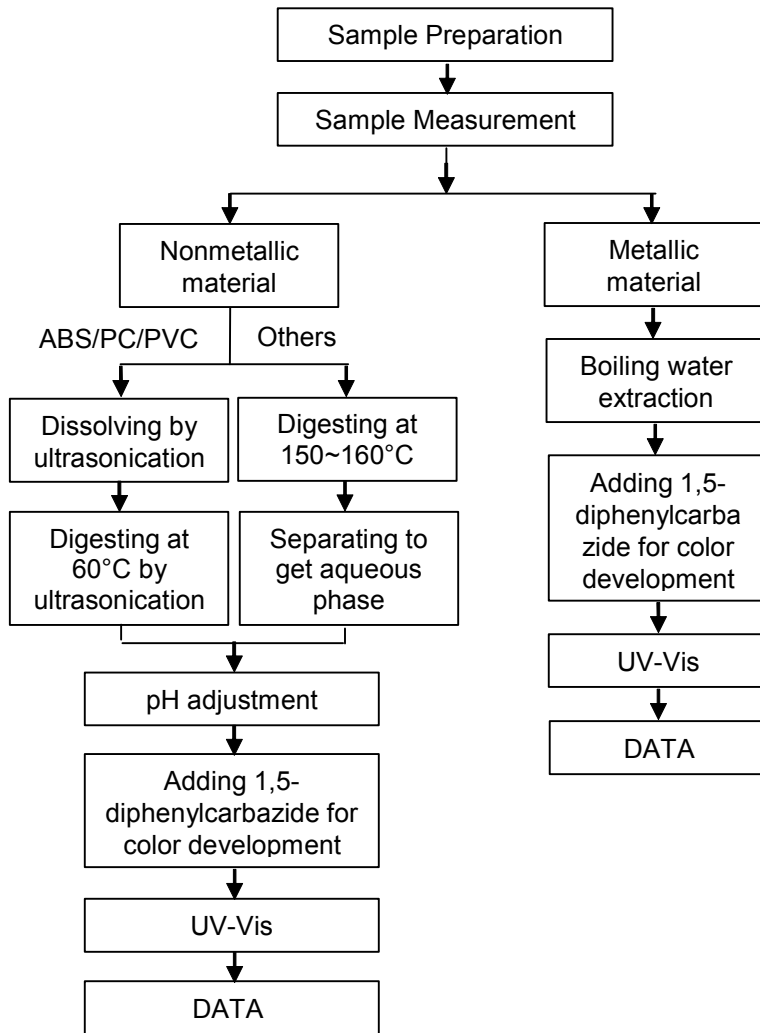
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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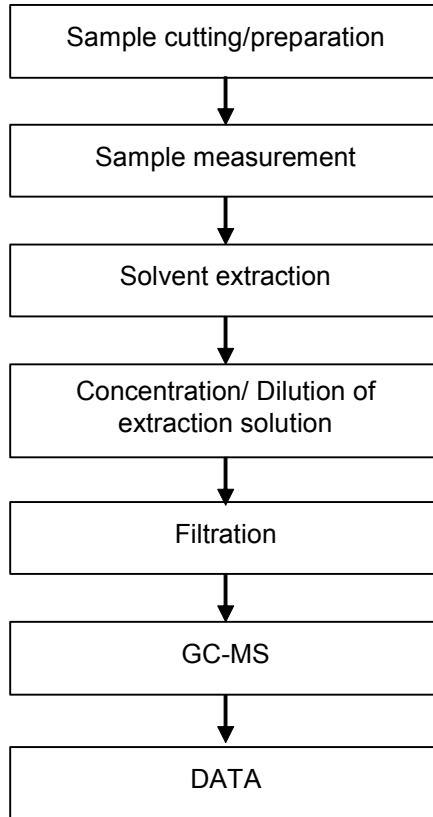
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PBBs/PBDEs Testing Flow Chart



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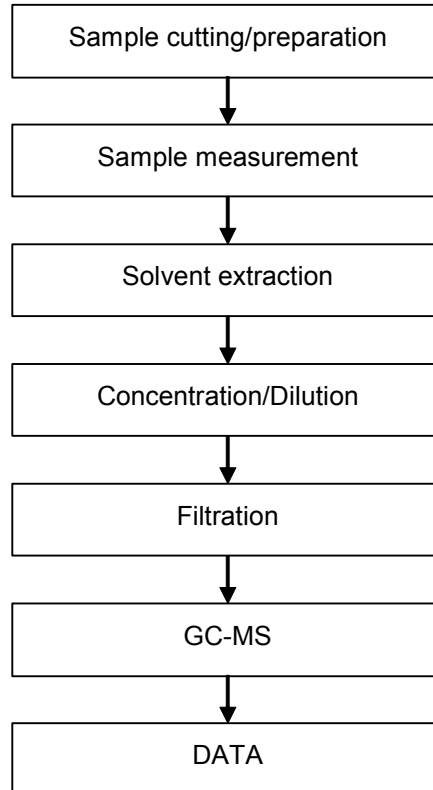
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Phthalates Testing Flow Chart



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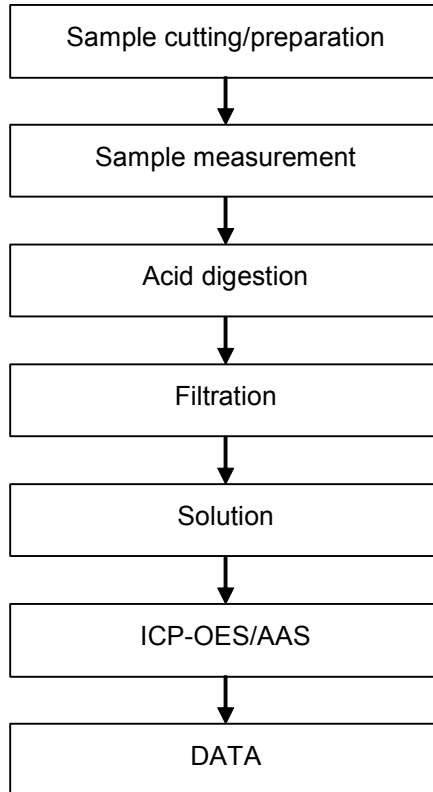
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Elements Testing Flow Chart



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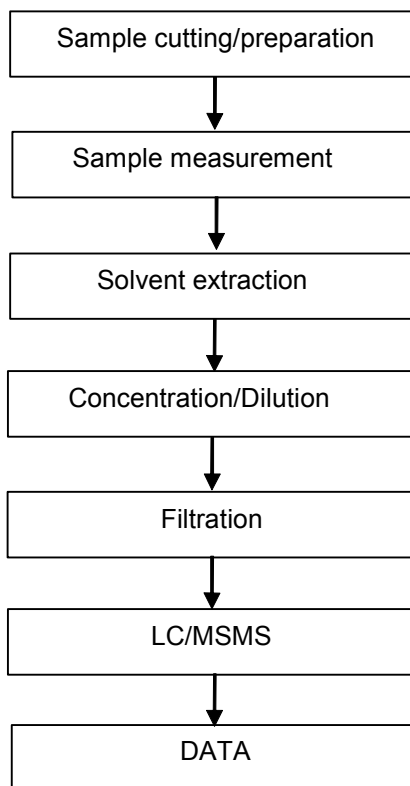
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PFOS/PFOA Testing Flow Chart



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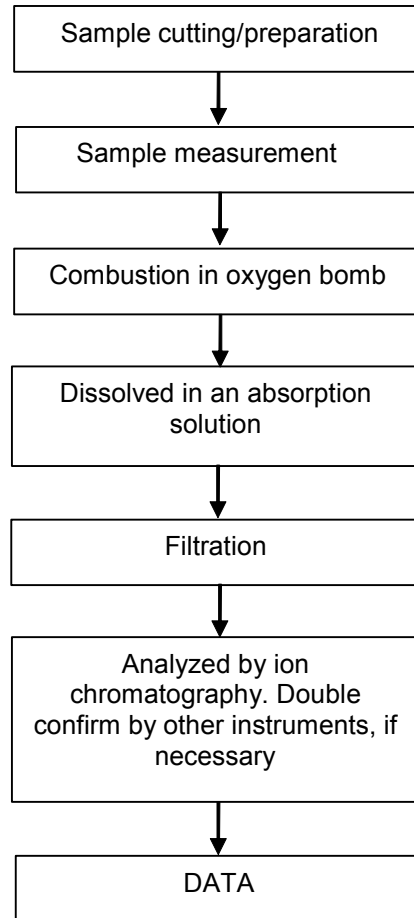
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Halogen Testing Flow Chart



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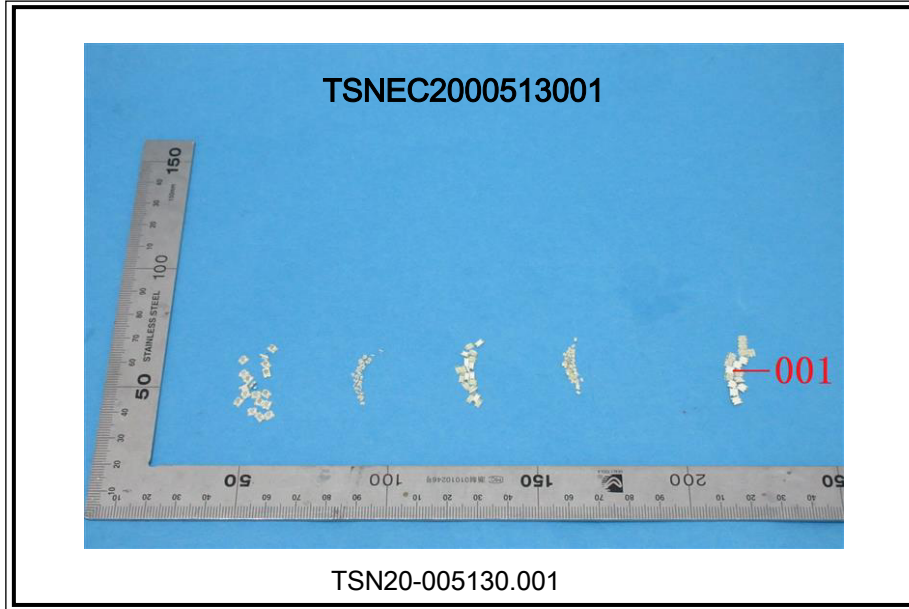
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