

## Test Report

No. TSNEC2300928601

Date: 18 Apr 2023

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Client Name : LITE-ON ELECTRONICS(TIANJIN)CO.,LTD

Client Address : NO.11,FU-YUAN ROAD, WUQING DEVELOPMENT AREA, TIANJIN, CHINA

Sample Name : SMD LED

Client Ref. Info. : Material No:LTST-XXX;LTSA-XXX

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

SGS Job No. : TP23-002758 - TJ

Date of Sample Received : 11 Apr 2023

Testing Period : 11 Apr 2023 - 17 Apr 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).

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



Reabeca Zhou  
Approved Signatory

scan to see the report



DC372DA1



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN23-009286.001	white solid with coppery metal colorless 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

**Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs)**

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)	Unit	MDL	001
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Sum of PBBs	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	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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<u>Test Item(s)</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

## 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	626
Chlorine (Cl)	mg/kg	50	194
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 or US EPA3050B:1996), 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

## Hexabromocyclododecane (HBCDD/HBCD)

Test Method : SGS in house method-TJChemLab-TOP-059 (With reference to US EPA 3550C:2007 、 US EPA 8270D:2014), analyzed by GC-MS.

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



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### Phthalates

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

Test Item(s)	CAS NO.	Unit	MDL	001
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
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 (DIHpP)	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



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Test Item(s)	CAS NO.	Unit	MDL	001
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
Bis(2-propylheptyl) Phthalate (DP <sub>2</sub> HP)	53306-54-0	% (w/w)	0.005	ND

### Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

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

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorooctane Sulfonates (PFOS) and its derivatives		mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) ^	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	0.01	ND

#### Notes :

- (1) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)
- (2) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1).

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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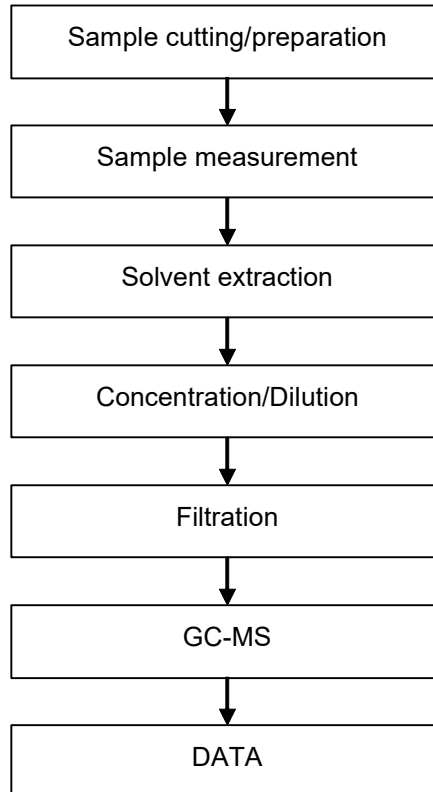


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### HBCDD(HBCD) Testing Flow Chart

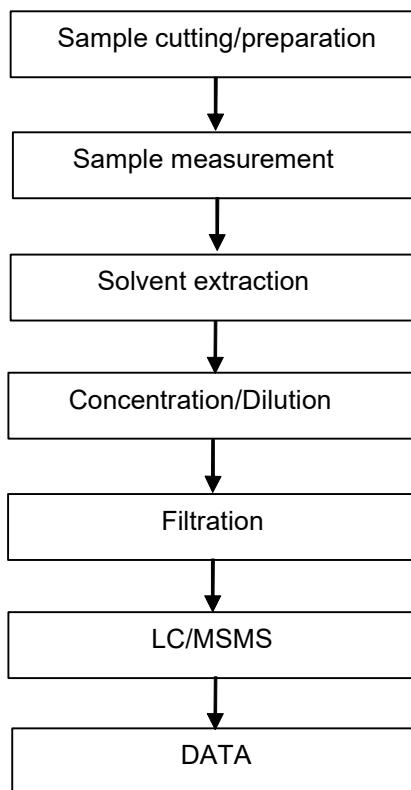


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### PFOS/PFOA Testing Flow Chart



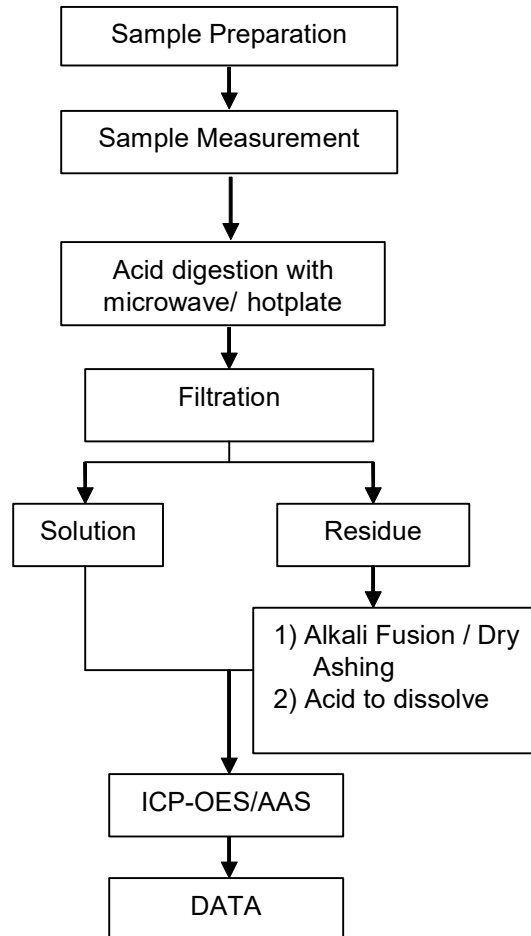
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**Elements (IEC62321) Testing Flow Chart**

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



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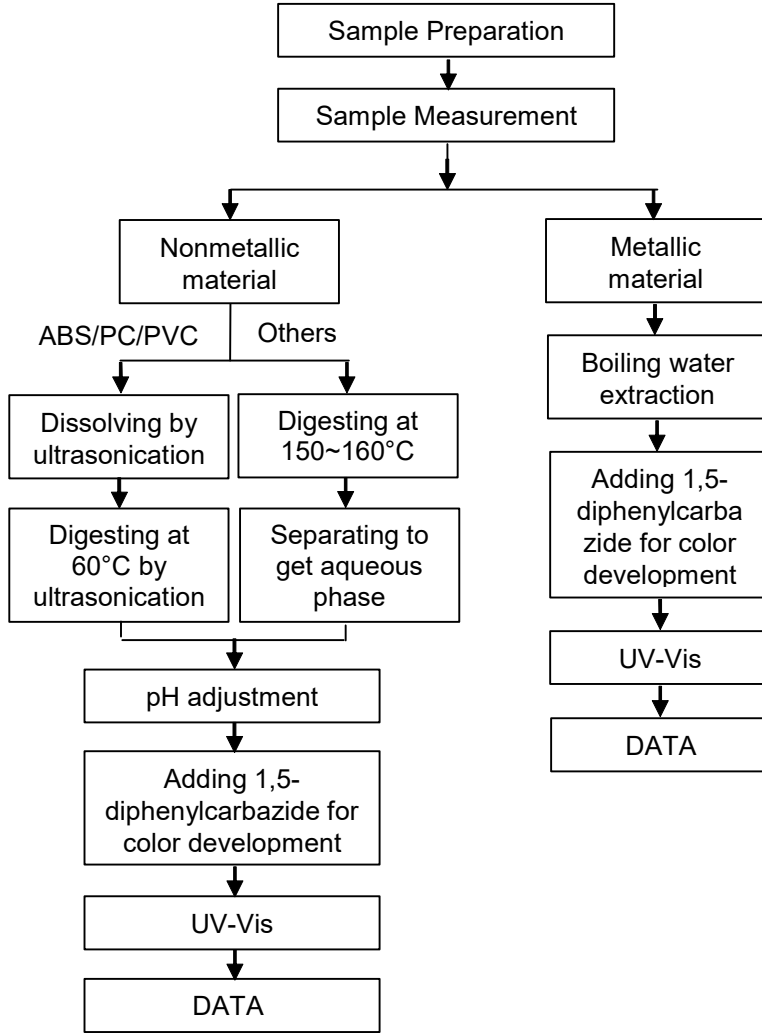
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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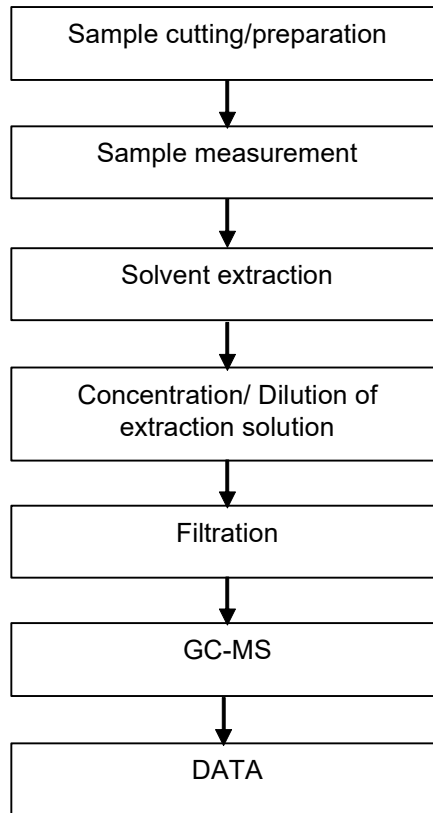
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**PBBs/PBDEs Testing Flow Chart**

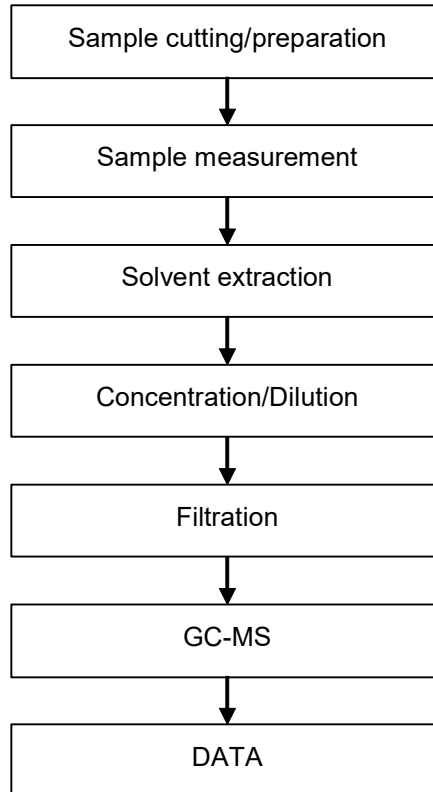


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### Phthalates Testing Flow Chart



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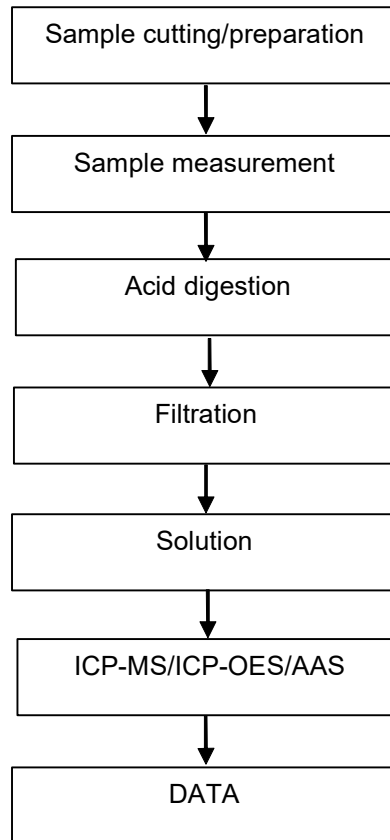
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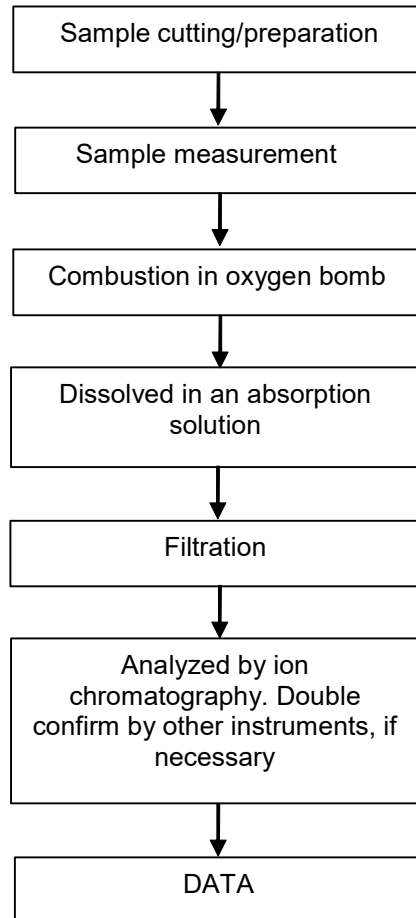
## ATTACHMENTS

### Elementary Testing Flow Chart

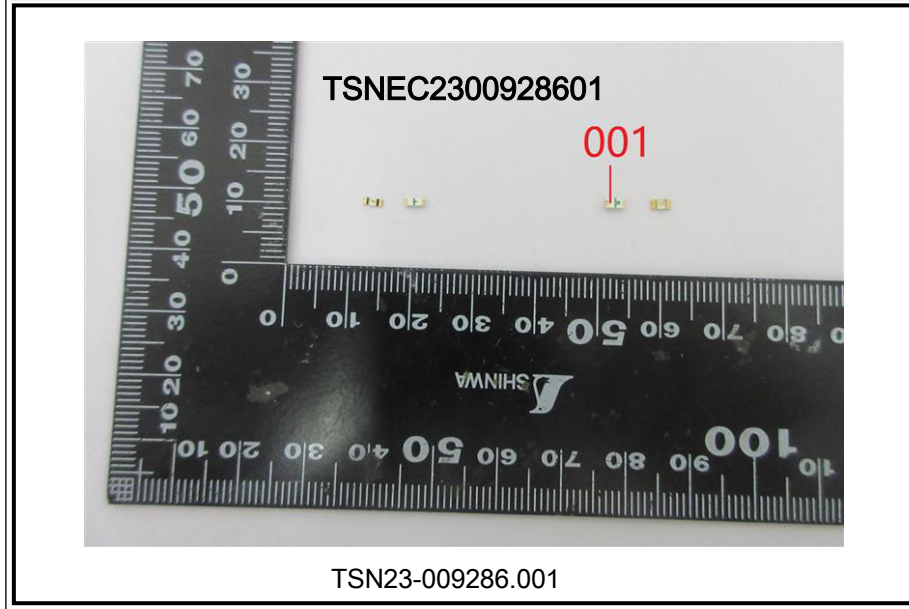


## ATTACHMENTS

### Halogen Testing Flow Chart



Sample photo:



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\*\*\* End of Report \*\*\*



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