

(No.): ETR24305709

(Date): 12-Apr-2024

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(The following sample(s) was/were submitted and identified by the applicant

as)

BASIC INFORMATION

Type of Product POWER LED Supplier Company Name EVERLIGHT

Address NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN

Tel / Fax / Email TEL:886-2685-6688 FAX:886-2685-6699

Sample preparation CUTTING

Test Method RoHS: IEC 62321, Halogen: BS EN 14582

MDL Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg

(Sample Receiving Date) : 28-Mar-2024

(Testing Period) : 28-Mar-2024 to 12-Apr-2024

(Test Results) : (Please refer to following pages).

PIN CODE: E5DBCD6A



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(Test Requested) : (1) RoHS 2011/65/EU Annex II (EU) 2015/863

, DBP, BBP, DEHP, DIBP (As specified

by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP,

BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) PAHs (As specified by client, to test PAHs and

other item(s).)

(Conclusion) : (1) , DBP, BBP,

DEHP, DIBP RoHS 2011/65/EU Annex II (EU) 2015/863

(Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II

to Directive 2011/65/EU.)

(A fPS) GS

PAHs 3 (Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) Other consumer products as set by German

Committee on Product Safety (AfPS) GS PAHs.)

(Test Part Description)

No.1 : (BODY)

No.2 : (PLATING LAYER OF SILVER COLORED METAL PIN)
No.3 : (BASE MATERIAL OF SILVER COLORED METAL PIN)

No.4 : () (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

(Test Results)

			MDL				
(Test Items)	(Method)	(Unit)			(Result)		(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.			100
	0.4741- 0.5000-0.5000-0.5000						
(Pb) (Lead (Pb))	(With reference to IEC 62321- 5: 2013, analysis was	mg/kg	2	8.65			1000
	performed by ICP-OES.)						



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			MDL				
(Test Items)	(Method)	(Unit)			(Result)		(Limit)
((**************************************	(=:,		No.1	No.2	No.3	, , ,
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1:	mg/kg	2	n.d.			1000
	2017						
	(With reference to IEC						
	62321-4: 2013+ AMD1: 2017,						
	analysis was performed by ICP-OES.)						
0.000/0	,	/1	0				1000
Cr(VI) (Hexavalent Chromium	IEC 62321-7-2: 2017	mg/kg	8	n.d.			1000
Cr(VI))	(With reference to IEC						
	62321-7-2: 2017, analysis was						
	performed by UV-VIS.)						
(Monobromobiphenyl)	performed by 0 v vio.)	mg/kg	5	n.d.			_
(Dibromobiphenyl)		mg/kg	5	n.d.			_
(Tribromobiphenyl)		mg/kg	5	n.d.			_
(Tetrabromobiphenyl)		mg/kg	5	n.d.			-
(Pentabromobiphenyl)		mg/kg	5	n.d.			-
(Hexabromobiphenyl)		mg/kg	5	n.d.			-
(Heptabromobiphenyl)		mg/kg	5	n.d.			-
(Octabromobiphenyl)		mg/kg	5	n.d.			-
(Nonabromobiphenyl)	JEC / 2221 / . 201E	mg/kg	5	n.d.			-
(Decabromobiphenyl)	IEC 62321-6: 2015 / (With	mg/kg	5	n.d.			-
(Sum of PBBs)	reference to IEC 62321-6:	mg/kg	-	n.d.			1000
(Monobromodiphenyl ether)	2015, analysis was performed	mg/kg	5	n.d.			-
(Dibromodiphenyl ether)	by GC/MS.)	mg/kg	5	n.d.			-
(Tribromodiphenyl ether)		mg/kg	5	n.d.			-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.			-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.			-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.			-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.			-
(Octabromodiphenyl ether)		mg/kg	5	n.d.			-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.			-
(Decabromodiphenyl ether)		mg/kg	5	n.d.			-
(Sum of PBDEs)		mg/kg	-	n.d.			1000

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	(Mathad)	(MDL				(1 ina i+)
	(Method)	(Unit)		No.1	No.2	No.3	(Limit)
(BBP) (Butyl benzyl phthalate (BBP))		mg/kg	50	n.d.			1000
benzyi primalate (bbr))		mg/kg	50	n.d.			1000
		mg/kg	50	n.d.			1000
		mg/kg	50	n.d.			1000
		mg/kg	50	n.d.			-
		mg/kg	50	n.d.			-
	IEC 62321-8: 2017 / (With reference to IEC 62321-8:	mg/kg	50	n.d.			-
	2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
		mg/kg	50	n.d.			-
		mg/kg	50	n.d.			-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-		mg/kg	50	n.d.			-
3) (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)		mg/kg	50	n.d.			-

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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
(Tost items)	(iviethod)	(01111)		No.1	No.2	No.3	(2.11111)
(DNNP) (Di-n- nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.			-
(F) (Fluorine (F)) (CAS No.: 14762- 94-8)		mg/kg	50	n.d.			-
(CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	BS EN 14582: 2016 (With reference	mg/kg	50	317			-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)	to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.			-
(I) (lodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.			-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-

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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	
(Polycyclic Aromatic Hydrocarbons) (PAHs)							
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.			
(e) (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.			
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.			
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.			
(j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.			
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.			
(Chrysene) (CAS No.: 218-01-9)	A fPS GS 2019:01 PAK	mg/kg	0.2	n.d.			
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	/ (With reference to AfPS GS 2019:01	mg/kg	0.2	n.d.			
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.			
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.			
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.			
(Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.			
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.			
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.			
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.			
15 (Sum of 15 PAHs)		mg/kg	-	n.d.			



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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
(Test Rems)	(iviethod)	(OIIII)		No.1	No.2	No.3	
(Be) (Beryllium (Be)) (CASNo.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP- OES.)	mg/kg	2	n.d.			-
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (IEC 62321-5: 2013 application of modified	mg/kg	2		n.d.		100
(Pb) (Lead (Pb))	digestion by surface etching, analysis was performed by ICP- OES.)	mg/kg	2		20.6		1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP- OES.)	mg/kg	2		n.d.		1000
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013,	mg/kg	2			n.d.	100
(Pb) (Lead (Pb))	analysis was performed by ICP-OES.)	mg/kg	2			37.6	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2			n.d.	1000



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	(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
					No.1	No.2	No.3	
	(Hexavalent Chromium) Cr(VI)	IEC 62321-7-1: 2015	μg/cm²	0.1		n.d.	n.d.	-
(#2)		- (With reference to IEC 62321-7- 1: 2015, analysis was performed by UV-VIS.)						

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3050B: 1996 (With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

((Note)			
1 .	mg/kg = ppm 0.1 wt% = 0.1% =	1000ppm		
2.	MDL = Method Detection Limit ()		
3.	n.d. = Not Detected ();	MDL/Less than MDL		
4.	"-" = Not Regulated ()			
5.	"" = Not Conducted ()		
ź.	(#2) =	•		
	a. 0.13 μg/cm ²		. / The sample is positive for Cr(VI) if the Cr(VI)	
	, 0	βμg/cm². The sample cc	pating is considered to contain Cr(VI).	
	b. n.d. (0.1	Oμg/cm ²)	. / The sample is negative for Cr(VI) if Cr(VI)	İS
	n.d. (concentration less than 0.10	μg/cm²). The coating is	s considered a non-Cr(VI) based coating	
	c. 0.10 0.13 µc	g/cm ²	. / The result between 0.10 µg/cm² ar	nd
		0	ole coating variations may influence the determination	
7	HAC CO 00 /0/	21.0		
١.	ILA C-G 8:09/20	` '	,	
	(Unies	ss otherwise stated, the	e decision rule for conformity reporting is based on	
	Binary Statement for Simple Acce	ptance Rule $(w=0)$ state	ed in ILAC-G8:09/2019. According to this rule, the	

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judgement of conformity is based on the comparing test results with limits.)



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PAHs Remark

(AfPS): GSPAHs

AfPS (German commission for Product Safety): GS PAHs requirements

1 (Category 1) 2 (Category 2) 3 (Category 3)

(Parameter)



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PFAS Remark

PFAS PFAS

PFAS PFAS

PFAS

CAS No.

(Group Name)

(Substance Name)

(PFOS-K) 2795-39-3

Potassium perfluorooctanesulfonate (PFOS-K)

(PFOS-Li) 29457-72-5

Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)

 $(\mathsf{PFO}\,\mathsf{S}\text{-}\,\mathsf{N}\,\mathsf{H}_{\,4})$

 $Perfluoro octane sulfonic\ acid,\ ammonium\ salt$

(PFOS-NH₄)

251099-16-8



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CAS No. (Substance Name) (Group Name) 307-35-7 (POSF) Perfluorooctane sulfonyl fluoride (POSF) PFOS, & 4021-47-0 (PFOS-Na) (PFOS, its salts & derivatives) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) 71463-74-6 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8heptadecafluorooctanesulfonate 335-95-5 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)



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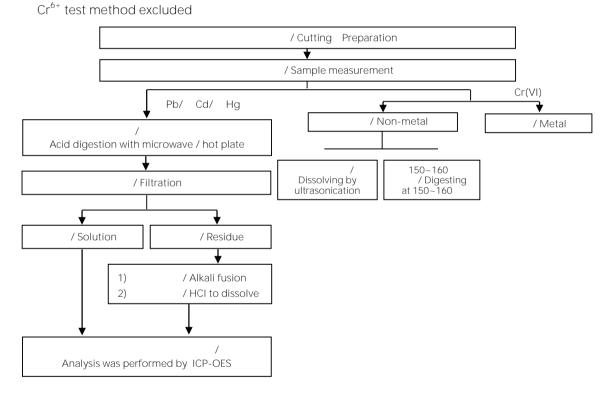
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/ Analytical flow chart of heavy metal

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





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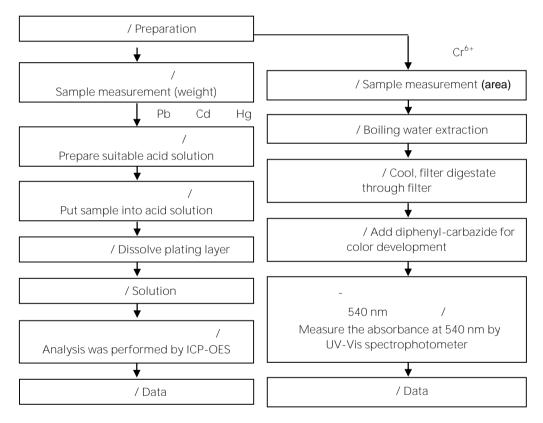
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/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart. Cr^{6+} test method excluded





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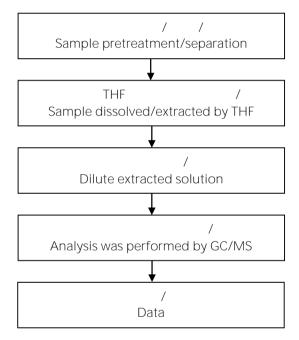
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





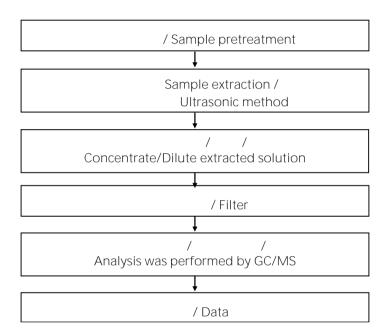
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/ Analytical flow chart - HBCDD





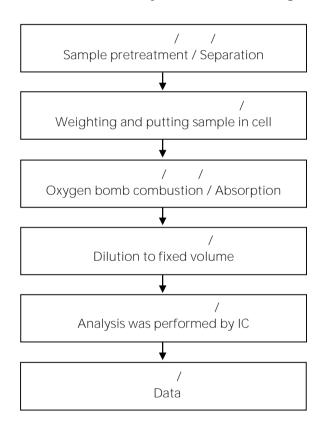
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/ Analytical flow chart - Halogen





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(/ /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)

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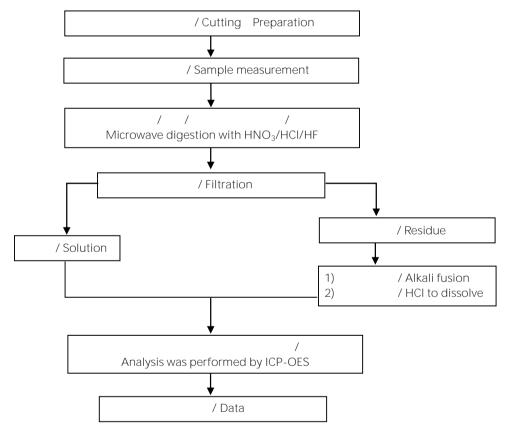
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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



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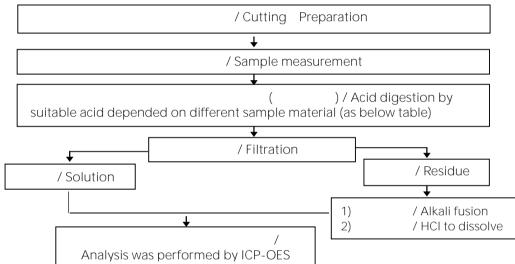
(EVERLIGHT ELECTRONICS CO., LTD.) (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

ICP-OES

(Flow chart of digestion for the elements analysis performed by ICP-OES)

/ These samples were dissolved totally by

pre-conditioning method according to below flow chart.



, , , / Steel, copper, aluminum, solder	, , , , Aqua regia, $\rm HNO_3$, $\rm HCI$, $\rm HF$, $\rm H_2O_2$
/ Glass	, / HNO ₃ ,HF
, , , / Gold, platinum, palladium, ceramic	/ Aqua regia
/ Silver	/ HNO ₃
/ Plastic	/ Hasol Haoa HNOa

 $/ H_2SO_4$, H_2O_2 , HNO_3

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ETR24305709 NO.3





(End of Report) **

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