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### Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

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

 $(H\ Y\ Zc\ ``ck\ ]b[\ gUa\ d\ Y(g)\ k\ Ug/k\ YfY\ gi\ Va\ ]hhYX\ UbX\ ]XYbh]Z]YX\ Vmh\ Y$ 

Udd`]WJbhUg)

**BASIC INFORMATION** 

Type of Product HIGH POWER 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

E-MAIL: lindawang@everlight.com

Contact Person LI LING WANG EVERLIGHT REPORT NO HIGH POWER

ELCH SERIES EHP-CO4 SERIES ELAP SERIES

Sampling Product: ELCH08-NB2530J6J9283910-F1H-SGS-12-Jul-2024

PRODUCT INFORMATION

Sample preparation CUTTING

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

MDL

:

(Sample Receiving Date) : 03-Jul-2024

(Testing Period) : 03-Jul-2024 to 12-Jul-2024

(HYgh F Ygi `hg) : (Please refer to following pages).

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan



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(HYgh F Yei YghYX) : (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).)

(CcbWig]cb) : (1)

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.)

(2) (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.)

(HYgh PUfh D YgWf]d h]c b)
No.1 : HIGH POWER

(HYgh F Ygi `hg)

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

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			MDL		
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
(	(0.00.000)	(3111)		No.1	(=)
(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.)				
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)		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)		mg/kg	5	n.d.	-
(Decabromobiphenyl)	IEC 62321-6: 2015	mg/kg	5	n.d.	-
(Gi a cZPBBg)	/ (With reference to	mg/kg	-	n.d.	1000
(Monobromodiphenyl ether)	IEC 62321-6: 2015, analysis was	mg/kg	5	n.d.	-
(Dibromodiphenyl ether)	performed 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.	-
(Gi a cZPBDEg)		mg/kg	-	n.d.	1000



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(Test	Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
benzyl phthalate (E	(BBP) (Butyl		mg/kg	50	n.d.	1000
Denzyi pritrialate (L	וטכו ))		mg/kg	50	n.d.	1000
			mg/kg	50	n.d.	1000
phtholoto (DIDD))	(DIBP) (Diisobutyl		mg/kg	50	n.d.	1000
phthalate (DIBP))  phthalate (DIDP)) (40-0, 68515-49-1)	(DIDP) (Diisodecyl CAS No.: 26761-		mg/kg	50	n.d.	-
40-0, 003 13-4 7-1)			mg/kg	50	n.d.	-
octyl phthalate (DN	(DNOP) (Di-n- NOP)) (CAS No.:	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was	mg/kg	50	n.d.	-
117-84-0)		performed by GC/MS.)	mg/kg	50	n.d.	-
			mg/kg	50	n.d.	-
			mg/kg	50	n.d.	-
			mg/kg	50	n.d.	-
			mg/kg	50	n.d.	-



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MDI (Method) (Unit) (Limit) No.1 IEC 62321-8: 2017 mg/kg 50 n.d. (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) IEC 62321: 2008 (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(Pc`mWnW]WAfca Uh]W 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)	A fPS GS 2019:01 PAK	mg/kg	0.2	n.d.	
(Chrysene) (CAS No.: 218-01-9)	/ (With reference to	mg/kg	0.2	n.d.	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		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 (Gi a cZ15		mg/kg	-	n.d.	



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(Be) (Beryllium (Be)) (CAS No 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.	-
1.					
2.					
3.					
4.					
5. ILAC-	G8:09/2019 (W=0)				
	(Unless otherwise stated, the deci	sion rule fo	rconfor	mity report	ing is



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PAHgFYa Uf\_

(A ZPG): G G P A H g

AfPS (German commission for Product Safety): GS PAHs requirements								
	1 (Category 1)	2 (Category 2)						
	( )	1						

	1 (Category 1)	2 (Category 2)		3 (Cate	egory 3)
(Parameter)	intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or	are not in Category	eable long-term seconds) or	1 2 ( )(Matecovered by Categorintended or foreseaterm skin contact (	eable short-
	years of age with intended long-term skin contact (> 30 seconds))	` ,	b. (Other consumer products)	4	b. (Other consumer products)
Naphthalene	< 1	< 2	)	< 10	)
Phenanthrene					
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene	< 1 3uiii	< 5 Sui i	< 10 Suiti	< 20 Julii	< 50 Suiti
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1

Benzo[b]fluoranthene



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PFAGFYa Uf_				
PFAS	PFAS		PFAS	
			PFAS	PFAS
		(	PFAS	PFAS

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

		CAS No.
(Group Name)	(Substance Name)	
PFOS, & (PFOS, its salts & derivatives)	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFO S-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFO S-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	(PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	29081-56-9
	$ (PFOS-NH(OH)_2) \\ Perfluorooctane sulfonate diethanolamine salt \\ (PFOS-NH(OH)_2) \\$	70225-14-8
	$ (PFOS-N(C_2H_5)_4) \\ Perfluorooctanesulfonic acid, tetraethylammonium salt \\ (PFOS-N(C_2H_5)_4) \\$	56773-42-3
	(PFO S-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	$(PFOS\text{-N}(C_4H_9)_4)$ TetrabutylAmmonium perfluorooctanesulfonate $(PFOS\text{-N}(C_4H_9)_4)$	111873-33-7
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7



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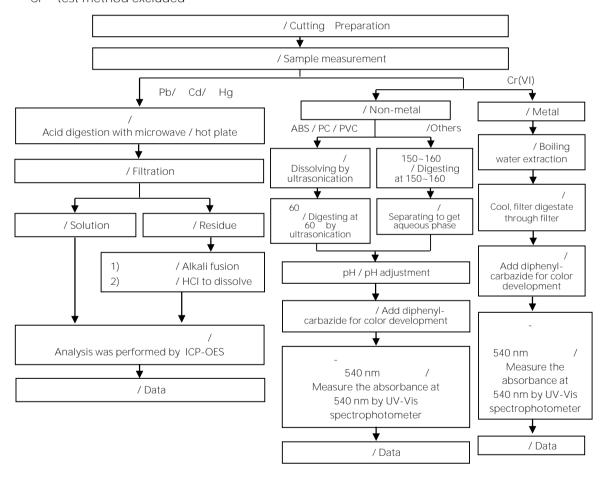
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#### / Analytical flow chart of heavy metal

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

Cr<sup>6+</sup> test method excluded





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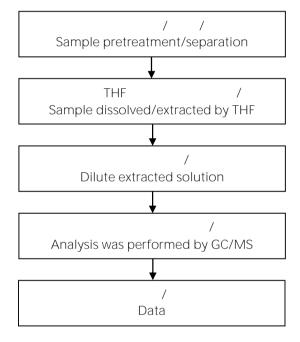
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





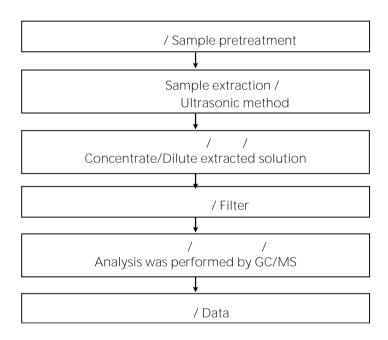
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#### / Analytical flow chart - HBCDD





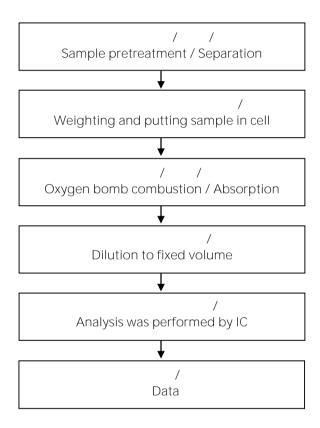
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#### / Analytical flow chart - Halogen





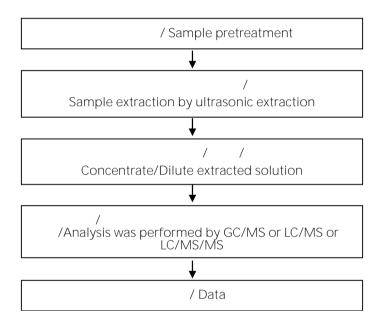
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( / / / ) / Analytical flow chart PFAS (including PFOA/PFOS/its related compound, etc.)





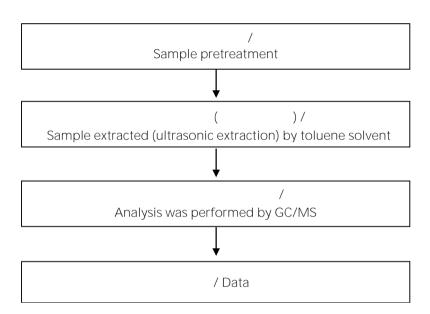
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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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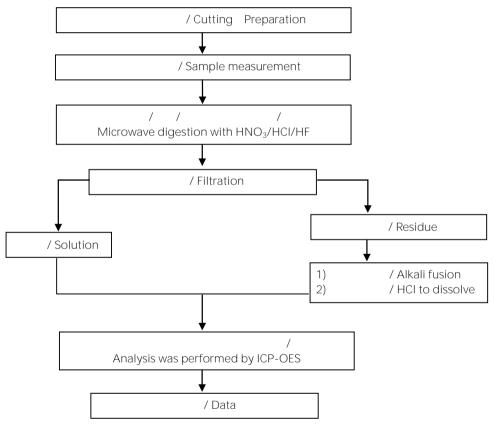
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( ) / Analytical flow chart of elements (Heavy metal included)

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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(The tested sample / part is marked by an arrow if it's shown on the photo.)



\* (End of Report) \*\*