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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`]WUbhUg)

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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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(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
Cr(VI) (Hexavalent Chromium Cr(VI))	IEC 62321-7-2: 2017 - (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
(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)	1	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)
(BBP) (Butyl benzyl phthalate (BBP))		mg/kg	50	n.d.	1000
benzyr primatate (bbr /)		mg/kg	50	n.d.	1000
		mg/kg	50	n.d.	1000
(DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
10 0,00010 17 1)		mg/kg	50	n.d.	-
(DNOP) (Di-n- octyl phthalate (DNOP)) (CAS No.: 117-84-0)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was	mg/kg	50	n.d.	-
117-04-0)	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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			MDL		
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
(Pc`m\\math\v)WAfcaUh]W					
Hydrocarbons) (PAHs)					
(a) (Benzo[a]pyrene) (CAS No.:		mg/kg	0.2	n.d.	
50-32-8)					
(e) (Benzo[e]pyrene) (CASNo.:		mg/kg	0.2	n.d.	
192-97-2)					
(Benzo[a]anthracene) (CAS		mg/kg	0.2	n.d.	
No.: 56-55-3)					
(b) (Benzo[b]fluoranthene)		mg/kg	0.2	n.d.	
(CAS No.: 205-99-2)					
(j) (Benzo[j]fluoranthene)		mg/kg	0.2	n.d.	
(CAS No.: 205-82-3)					
(k) (Benzo[k]fluoranthene)		mg/kg	0.2	n.d.	
(CAS No.: 207-08-9)	AfPS GS 2019:01 PAK				
(Chrysene) (CASNo.: 218-01-9)	/ (With reference to	mg/kg	0.2	n.d.	
(Dibenzo[a,h]anthracene)	AfPS GS 2019:01 PAK, analysis was	mg/kg	0.2	n.d.	
(CAS No.: 53-70-3)	performed by GC/MS.)				
(Benzo[g,h,i]perylene) (CAS		mg/kg	0.2	n.d.	
No.: 191-24-2)					
(Indeno[1,2,3-c,d]pyrene) (CAS		mg/kg	0.2	n.d.	
No.: 193-39-5)					
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	
(Fluoranthene) (CAS No.: 206-		mg/kg	0.2	n.d.	
44-0)					
(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 (Gia cZ15		mg/kg	-	n.d.	



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(Be) (Beryllium (Be)) (CAS N 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. ILA	C-G8:09/2019 (w=0) (Unless otherwise stated, the decis	sion rule fo	r confor	mity report	ing is



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PAHgFYa Uf_

(A ZPG): GG PA Hg

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

	1 (Category 1)	1 (Category 1) 2 (Category 2)		3 (Cate	egory 3)
(Parameter)	(30) 2009/48/EC 3 (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3	5 5	eable long-term seconds) or	1 2 ()(Mat covered by Catego intended or foresed term skin contact (eable short-
	years of age with intended long-term skin contact (> 30 seconds))	a. 14 (Use by children under 14)	b. (Other consumer products)		b. (Other consumer products)
Naphthalene	< 1	< 2)	< 10)
Phenanthrene					
Anthracene	. 1 Cum	, F C. 100	. 10 Cum	. 20 Cum	. FO Cum
Fluoranthene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
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)	
	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFO S-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	(PFOS-NH ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
PFOS, & (PFOS, its salts & derivatives)	$\label{eq:continuous} (PFOS-NH(OH)_2)$ 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
	(PFOS-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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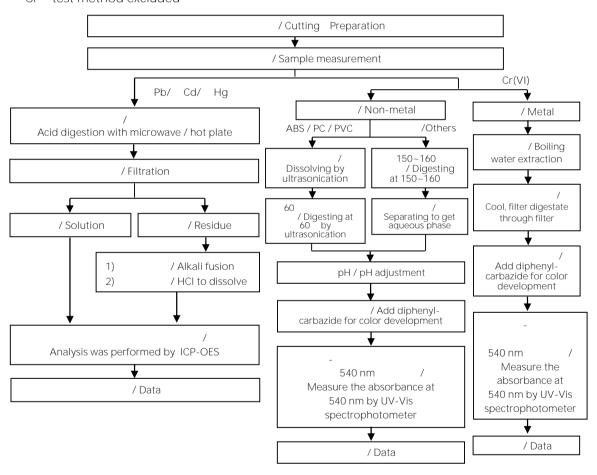
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/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded





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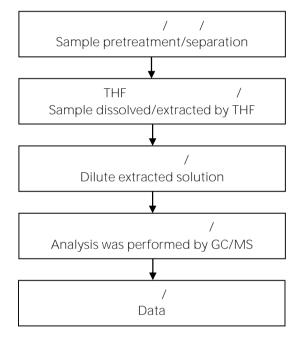
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





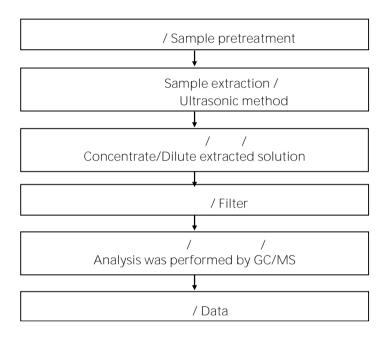
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/ Analytical flow chart - HBCDD





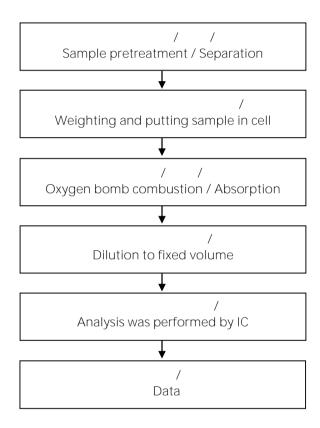
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/ Analytical flow chart - Halogen





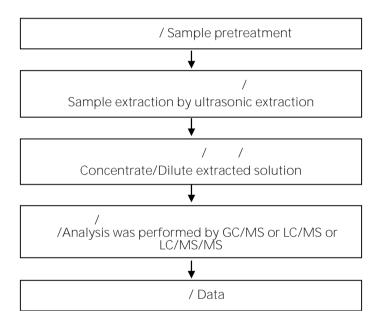
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(/ / /) / Analytical flow chart PFAS (including PFOA/PFOS/its related compound, etc.)





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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

/
Sample pretreatment

() /
Sample extracted (ultrasonic extraction) by toluene solvent

/
Analysis was performed by GC/MS

/ Data



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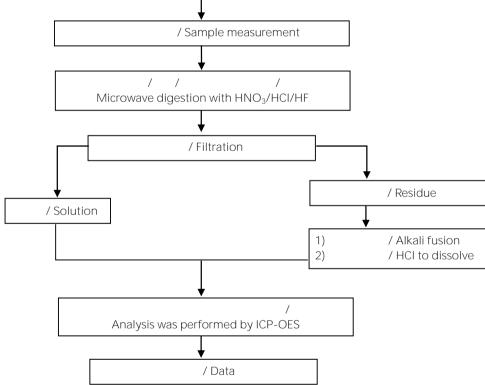
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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052

/ Cutting Preparation



* 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) **