

Test Report

No.: EDG2501060090C00101R

Date: Jan. 23, 2025

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Applicant : EcoFlow Inc.

Address : RM 401, Plant #1, Runheng Industrial Zone, Fuyuan Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China

Sample Name : EcoFlow 250W Rigid Solar Panel, EcoFlow 130W RVMax Rigid Solar Panel

Style/Item No. : EF-SG-250, EF-SG-130

Received Date : Jan. 06, 2025

Test Period : Jan. 06, 2025 ~ Jan. 23, 2025

Test Requested : 1. As requested by the client, according to the Entry 50 in Annex XVII of the REACH Regulation (EC) NO.1907/2006 and the Amendment (EU) No 1272/2013 & (EU) 2021/1199, to determine the contents of the regulated PAHs in the submitted sample.
2. As requested by the client, according to AfPS GS 2019:01 PAK, to determine the contents of Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample.

Test Results : Please refer to next page (s).

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Executive Summary:

STANDARD	CONCLUSION
1. Entry 50 in Annex XVII of the REACH Regulation (EC) NO.1907/2006 and the Amendment (EU) No 1272/2013 & (EU) 2021/1199 – PAHs Requirement	PASS
2. AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs) Requirement	PASS



Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Prepared by:

Polly

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Report Engineer

Reviewed by:

Cindy

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Approved by:

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Authorized signatory
Jan. 23, 2025

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Test Results:

1. Entry 50 in Annex XVII of the REACH Regulation (EC) NO.1907/2006 and the Amendment (EU) No 1272/2013 & (EU) 2021/1199 – PAHs Requirement

Test Method: To refer to the standard AfPS GS 2019:01 PAK, the analysis was performed by GC-MS.

Test Item	CAS Number	Test Result(mg/kg)					MDL (mg/kg)	Limit (mg/kg)
		1+2	3+4	5+6	7+8	9		
Benzo[a]pyrene(BaP)	50-32-8	ND	ND	ND	ND	ND	0.1	1
Benzo[e]pyrene(BeP)	192-97-2	ND	ND	ND	ND	ND	0.1	1
Benzo[a]anthracene(BaA)	56-55-3	ND	ND	ND	ND	ND	0.1	1
Chrysene(CHR)	218-01-9	ND	ND	ND	ND	ND	0.1	1
Benzo[b]fluoranthene(BbFA)	205-99-2	ND	ND	ND	ND	ND	0.1	1
Benzo[j]fluoranthene(BjFA)	205-82-3	ND	ND	ND	ND	ND	0.1	1
Benzo[k]fluoranthene(BkFA)	207-08-9	ND	ND	ND	ND	ND	0.1	1
Dibenz[a,h]anthracene(DBAhA)	53-70-3	ND	ND	ND	ND	ND	0.1	1

Note: mg/kg = part per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit

Remark: The requirements are quoted from the entries 50 in Annex XVII of the REACH Regulation (EC) NO.1907/2006 and the Amendment (EU) No 1272/2013 & (EU) 2021/1199 about PAHs contents as below:

Materials	Timeline	Requirement (mg/kg)
Extender oils, tyres and treads contain extender oils	Commencing on January 1, 2010	1 mg/kg of BaP, 10 mg/kg of the sum of the listed PAHs
Rubber or plastic components from articles for supply to the general public, come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Commencing on December 27, 2015	1 mg/kg of any of the listed PAHs
Rubber or plastic components from toys, including activity toys and childcare articles, come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Commencing on December 27, 2015	0.5 mg/kg of any of the listed PAHs

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Test Results:

2. AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs) Requirement

Test Method: To refer to AfPS GS 2019:01 PAK, the analysis was performed by GC-MS.

Test Item	CAS Number	Test Result (mg/kg)					MDL (mg/kg)
		1+2	3+4	5+6	7+8	9	
Benzo[a]pyrene(BaP)	50-32-8	ND	ND	ND	ND	ND	0.1
Benzo[e]pyren(BeP)	192-97-2	ND	ND	ND	ND	ND	0.1
Benzo[a]anthracene(BaA)	56-55-3	ND	ND	ND	ND	ND	0.1
Benzo[b]fluoranthene(BbF)	205-99-2	ND	ND	ND	ND	ND	0.1
Benzo[j]fluoranthene(BjF)	205-82-3	ND	ND	ND	ND	ND	0.1
Benzo[k]fluoranthene(BkF)	207-08-9	ND	ND	ND	ND	ND	0.1
Chrysene(CHR)	218-01-9	ND	ND	ND	ND	ND	0.1
Dibenzo[a,h]anthracene(DBA)	53-70-3	ND	ND	ND	ND	ND	0.1
Benzo[g,h,i]perylene(BPE)	191-24-2	ND	ND	ND	ND	ND	0.1
Indeno[1,2,3-cd]pyrene(IPY)	193-39-5	ND	ND	ND	ND	ND	0.1
Phenanthrene(PHE)	85-01-8	ND	ND	ND	ND	ND	0.1
Pyrene(PYR)	129-00-0	ND	ND	ND	ND	ND	0.1
Anthracene(ANT)	120-12-7	ND	ND	ND	ND	ND	0.1
Fluoran-thene(FLT)	206-44-0	ND	ND	ND	ND	ND	0.1
Sum [#] of Phenanthrene, Pyrene, Anthracene, Fluoranthene	-----	ND	ND	ND	ND	ND	-----
Naphthalene(NAP)	91-20-3	ND	ND	ND	ND	ND	0.1
Total of above PAHs (sum) [#]	-----	ND	ND	ND	ND	ND	-----

- Note: 1. mg/kg = part per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit
 2. “[#]” = Only those PAH components which present in the material over the 0.1 mg/kg are taken into account while calculating the sum of PAHs
 3. All the materials tested belong to category 3(b) by identifying.

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Appendix

Limit of PAH content according to AfPS GS 2019:01 PAK.

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds)	Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin		Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact ($\leq$ 30 seconds)	
		2a. Use by children under 14	2b. Other consumer products	3a. Use by children under 14	3b. Other consumer products
Benzo[a]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyren (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Pyrene, Anthracene, Fluoranthene (mg/kg)	< 1 (Sum)	< 5 (Sum)	< 10 (Sum)	< 20 (Sum)	< 50 (Sum)
Naphthalene (mg/kg)	< 1	< 2		< 10	
Sum 15 PAHs (mg/kg)	< 1	< 5	< 10	< 20	< 50

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Tested Materials:

No.	Description
1	Dark grey hard plastic (handle)
2	Dark grey hard plastic (cover of handle)
3	Transparent hard plastic (solar panel)
4	Orange hard plastic (plug)
5	Dark grey soft plastic (electronic wire)
6	Dark grey soft plastic (node of electronic wire)
7	Black soft plastic (electronic wire)
8	Red soft plastic (electronic wire)
9	Black glue (fixed glue)

Remark: As specified by client, the samples were subjected to mixed testing.

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Sample Photo



*** End of Report ***

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