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Sunny Su

File administrators

Report No.:AOC250605011R

TEST REPORT

Client company	:	Dongguan Pinguan Sports Technology Co., LTD						
Client address	:	Room 303, Building 3, No. 8, Shajingkeng Road, L City, Guangdong Province	iaobu Town, Dongguan					
Manufacturer	:	Dongguan Pinguan Sports Technology Co., LTD						
Address	:	Room 303, Building 3, No. 8, Shajingkeng Road, Liaobu Town, Dongguan City, Guangdong Province						
Report on the submitted	sam	ples said to be:						
Sample Name	:	Smart Li-Polymer Battery Pack						
Trade Mark	:	N/A						
Style/ Item No.	:	PG-6000, PG-5000, PG-7000, PG-8000, PG-8500, PG-4	1000					
Sample Receiving Date	:	May 29, 2025						
Testing Period	:	May 29, 2025 ~ June 5, 2025						
Results	:	Please refer to next page(s).						
**************************************		***************************************	**********					
TEST REQUEST			CONCLUSION					
A RoHS Directive (EU)	201	7/2102 amending Annex II to Directive 2011/65/EU.	POSITIVE					
*********	****	***************************************	*********					
Signed for and on behalf of	f AO	CE						
Written By:		Sunny Su Approved by:	Alice Zhou					

Alice Zhou

Manager

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Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tootod Part/o)	Results					
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br	
1	Black plsatic enclosure	BL	BL	BL	BL	BL	
2	Black socks	BL	BL	BL	BL	BL	
3	Battery	BL	BL	BL	BL	BL	
4	Black wire	BL	BL	BL	BL	BL	
5	White plastic USB interface	BL	BL	BL	BL	BL	
6	Silver metal USB interface	BL	BL	BL	BL	BL	
7	Chips of resistance	BL	BL	BL	BL	BL	
8	Chips of capacitance	BL	BL	BL	BL	BL	
9	PCB	BL	BL	BL	BL	BL	
10	Solder on PCB	BL	BL	BL	BL	BL	

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Note:

-- = Not Conducted

* = Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material	
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x 	
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x 	
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x 	
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>	
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>	

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Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)					
Cadmium (Cd)	100					
Lead (Pb)	1000					
Mercury (Hg)	1000					
Hexavalent Chromium (Cr(VI))	1000					
Polybrominated biphenyls (PBBs)	1000					
Polybrominated diphenylethers (PBDEs)	1000					
Bis(2-ethylhexyl) phthalate(DEHP)	1000					
Butyl benzyl phthalate(BBP)	1000					
Dibutyl phthalate(DBP)	1000					
Diisobutyl phthalate(DIBP)	1000					

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

Test method:

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Mercury Content:

With reference to IEC 62321-4:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2013, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Phthalates Content:

With reference to IEC 62321-8:2017, by gas chromatography-mass spectrometry (GC-MS)

1) The test results of Lead (Pb)

Itam	l lmi4	MDI	Res	ults	1 ::4	
Item	Unit	MDL	(1)	(2)	Limit	
Lead Content (Pb)	mg/kg	2	38	21	1000 mg/kg	
Conclusion	1	1	Pass	Pass	/	

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2) The test results of PBBs & PBDEs

lta-m	I I I I I I I	MDL	Res	I imale	
Item	Unit		1	2	Limit
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	1	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	1	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results				Limit	
item			(1)	(2)	(3)	(4)	(5)	Lillit
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
item	Unit		(6)	(7)	(8)	(9)	(10)	Limit
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Note:

- N.D. = Not Detected or less than MDL

- mg/kg = ppm

- MDL = Method Detection Limit

- Photo appendix is included.

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Appendix

Photograph of Sample



Fig.1



Fig.2

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Fig.3

AOCE authenticate the photo on original report only

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