

# TEST REPORT

<b><u>APPLICANT</u></b>	: Xindao B.V.
<b><u>ADDRESS</u></b>	: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
<b><u>SAMPLE DESCRIPTION</u></b>	: Swiss Peak eclipse solar backpack
<b><u>ITEM NO.</u></b>	: P762.12
<b><u>COUNTRY OF ORIGIN</u></b>	: China
<b><u>COUNTRY OF DESTINATION</u></b>	: Europe
<b><u>SAMPLE RECEIVED DATE</u></b>	: 10-Jan-2017
<b><u>TURN AROUND TIME</u></b>	: 10-Jan-2017 to 18-Jan-2017, 7 Working Days
<b><u>TEST SPECIFICATION</u></b>	: EC Directive 2011/65/EU —The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — (RoHS)
<b><u>CONCLUSION</u></b>	: Based on the analysis on the submitted sample(s), the test results do comply with the RoHS directive 2011/65/EU.

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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., LtdJoyce Liu  
Lab Manager

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**SAMPLE PHOTO**



**EFSH17010364-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT PHOTO(S)**



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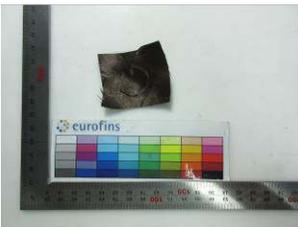
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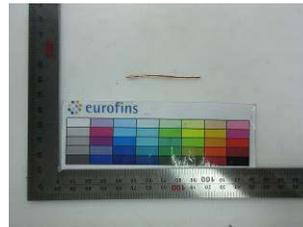
**EFSH17010364-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT PHOTO(S)**



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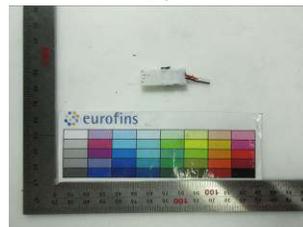
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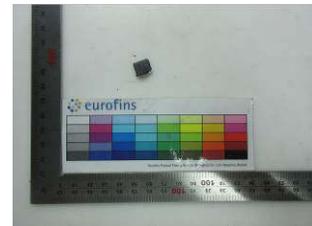
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\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI):1000	PBB:1000 PBDE:1000
1	Transparent plastic board	ND	ND	ND	ND	ND
2	Black plastic board	13	ND	ND	ND	NC
3	Gray rubber block	ND	ND	ND	ND	ND
4	Celadon cloth	ND	ND	ND	ND	ND
5	Grey sponge block	14	ND	ND	ND	ND
6	Transparent plastic tape	ND	ND	ND	ND	ND
7	Brown cloth	ND	ND	ND	ND	NC
8	Green cloth	ND	ND	ND	261	ND
9	Black zipper side	ND	ND	ND	ND	ND
10	Black plastic zipper teeth	ND	ND	ND	ND	ND
11	Silver metal block 1	ND	ND	ND	NC	NA
12	Black rubber wire sheath	ND	ND	ND	ND	ND
13	Black rubber wire sheath	19	ND	ND	101	ND
14	Green rubber wire sheath	ND	ND	ND	ND	ND
15	Red rubber wire sheath	ND	ND	ND	ND	ND
16	White rubber wire sheath	ND	ND	ND	ND	ND
17	Copper color metal wire	ND	ND	ND	NC	NA
18	Black rubber block 1	ND	ND	ND	ND	ND
19	Black rubber block 2	ND	ND	ND	ND	ND
20	Silver electronic components	ND	ND	ND	NC	NA
21	Black electronic components 1	ND	ND	ND	NC	NA
22	White plastic block 1	ND	ND	ND	ND	ND
23	White plastic block 2	ND	ND	ND	ND	ND
24	Circuit board	ND	ND	ND	ND	NC
25	Silver metal solder	ND	ND	ND	NC	NA
26	Silver magnet	ND	ND	ND	NC	NA
27	Black plastic block 1	ND	ND	ND	ND	ND
28	Silver metal block 2	ND	ND	ND	NC	NA
29	Silver metal block 3	ND	ND	ND	NC	NA
30	Silver metal block 4	ND	ND	ND	NC	NA
31	Silver metal block 5	ND	ND	ND	NC	NA
32	Black electronic components 2	ND	ND	ND	ND	ND
33	Black plastic block 2	ND	ND	ND	ND	NC

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Abbreviation:	Pb	denotes Lead
	Cd	denotes Cadmium
	Hg	denotes Mercury
	Cr	denotes Chromium
	Cr(VI)	denotes Chromium(VI)
	Br	denotes Bromine
	PBBs	denotes Total Polybrominated Biphenyls
	PBDEs	denotes Total Polybrominated Diphenyl Ethers
	NA	denotes Not Applicable
	ND	denotes Not Detected (Cd<10mg/kg, Pb/ Hg/ Cr<100mg/kg, Br<300mg/kg)
	NC	denotes Not Conclusive

XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

**Note:**

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013 Ed.1	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1	UV-Vis	0.01 $\mu\text{g}/\text{cm}^2$
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed.1	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Boiling-water-extraction for Cr(VI) (*1)
11	Negative
17	Negative
20	Negative
21	Negative
25	Negative
26	Negative
28	Negative
29	Negative
30	Negative
31	Negative

#### Remark:

(\*1) The screening result of Chromium(VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$ .The coating is considered a non-Cr(VI) based coating.

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
2	-	-	-	-	ND	ND
7	-	-	-	-	ND	ND
24	-	-	-	-	ND	ND
33	-	-	-	-	ND	ND

#### Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = milligram per kilogram

$\mu\text{g}/\text{cm}^2$  = micrograms per square

\*\*\* END OF THE REPORT \*\*\*