

TEST REPORT

| | |
|--|---|
| <u>APPLICANT</u> | : Xindao B.V. |
| <u>ADDRESS</u> | : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands |
| <u>SAMPLE DESCRIPTION</u> | : Swiss Peak 15" minimalist USB laptop backpack PVC free |
| <u>REFERENCE SAMPLE DESCRIPTION</u> | : Solar panel power hiking backpack |
| <u>ITEM NO.</u> | : P762.37 |
| <u>REFERENCE ITEM NO.</u> | : P762.38 |
| <u>COUNTRY OF ORIGIN</u> | : China |
| <u>COUNTRY OF DESTINATION</u> | : Europe |
| <u>SAMPLE RECEIVED DATE</u> | : 04-Sep-2018 |
| <u>TURN AROUND TIME</u> | : 04-Sep-2018 to 11-Sep-2018 |
| <u>TEST SPECIFICATION</u> | : Total concentration of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in Electrical and Electronic Equipment in accordance with EC Directive 2011/65/EU (RoHS) |
| <u>CONCLUSION</u> | : Based on the analysis on the submitted sample(s), the test results do comply with the concentration limits as specified in Annex II to Directive 2011/65/EU. |

Note: The reference sample(s) / item(s) has not been tested in current report, but according to applicant's request, the description / item number has also been included.

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to china.complaint@eurofins.com and referring to this report number.

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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., Ltd



Joyce Liu
Lab Manager

TEST SAMPLE PHOTO



EFSH18080976-CG-02

TO BE CONTINUED

REFERENCE SAMPLE PHOTO



EFSH18080976-CG-02

Note: The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo"

TO BE CONTINUED

COMPONENT PHOTO(S)



1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16

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 | Black rubber block 1 | 17 | ND | ND | ND | ND |
| 2 | Black rubber block 2 | 24 | ND | ND | ND | ND |
| 3 | Black rubber wire cover | ND | ND | ND | ND | ND |
| 4 | Grey rubber wire sheath | ND | ND | ND | 219 | ND |
| 5 | Green rubber wire sheath | ND | ND | ND | ND | ND |
| 6 | Red rubber wire sheath | ND | ND | ND | ND | ND |
| 7 | White rubber wire sheath | ND | ND | ND | ND | ND |
| 8 | Copper metal wire | ND | ND | ND | NC | NA |
| 9 | Silver metal connection sheet 1 | ND | ND | ND | NC | NA |
| 10 | Silver metal connection sheet 2 | ND | ND | ND | NC | NA |
| 11 | Silver metal connection sheet 3 | ND | ND | ND | NC | NA |
| 12 | White plastic block 1 | ND | ND | ND | ND | ND |
| 13 | Silver metal block 1 | 18 | ND | ND | NC | NA |
| 14 | White plastic block 2 | ND | ND | ND | ND | ND |
| 15 | Silver metal block 2 | ND | ND | ND | NC | NA |
| 16 | Silver metal soldering tin | ND | NC | ND | NC | NA |

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 μ g/cm ² |
| | IEC62321-7-2:2017 | | 10 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) |
|---------------|--|
| 8 | Negative |
| 9 | Negative |
| 10 | Negative |
| 11 | Negative |
| 13 | Negative |
| 15 | Negative |
| 16 | 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 μ g/cm².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 |
| 16 | - | 69 | - | - | - | - |

Note:

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

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = ppm = parts per million

μ g/cm² = micrograms per square centimeter

END OF THE REPORT