

# TEST REPORT

**APPLICANT** : Xindao B.V.

**ADDRESS** : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**SAMPLE DESCRIPTION** : Eco cork notebook

**ITEM NO.** : P773.92

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 14-Mar-2018

**TURN AROUND TIME** : 14-Mar-2018 to 28-Mar-2018

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

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Formaldehyde Release	EN 717-3-1996	Pass
Pentachlorophenol (PCP) Content	REACH Annex XVII, Entry 22	Pass
Migration of Certain Elements	EN71 Part 3:2013+A2:2017	Pass

*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](mailto: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., If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number. Ltd.*

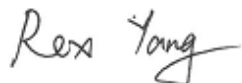
**Eurofins (Shanghai) contact information**

**Customer service:** [SherryZhu@eurofins.com](mailto:SherryZhu@eurofins.com) / +86 21 61819210

**Sales specialist:** [WandyShen@eurofins.com](mailto:WandyShen@eurofins.com) / 18616155723

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

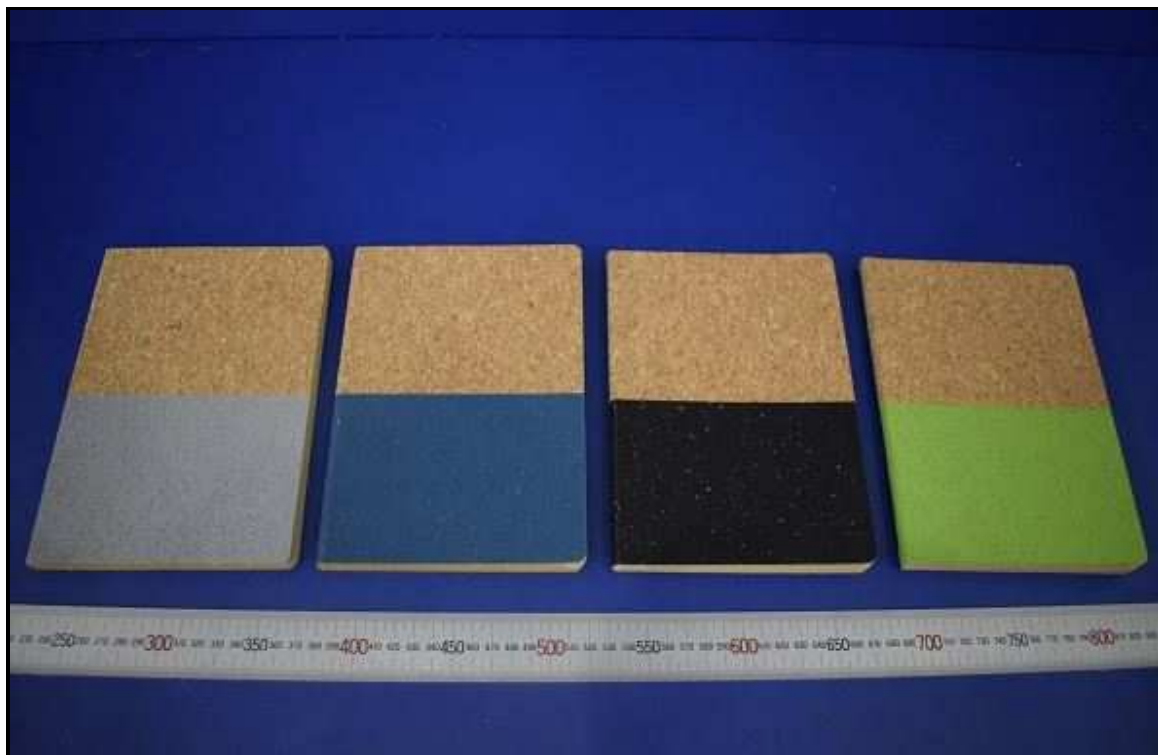
Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



---

Rex Yang  
Assistant Chemical Lab Manager

**SAMPLE PHOTO**



**EFSH18030719-CG-01**

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

## **COMPONENT LIST**

<b>Component No.</b>	<b>Component</b>
1	Brown wood (cover)
2	Light brown paperboard
3	Light brown paper with black printing (page)

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

## TEST RESULT

### Formaldehyde Release

Test Method: EN 717-3-1996, formaldehyde release was determined by UV-Visible Spectrophotometer (UV-Vis) analysis.

Limit: According to client's requirement

Tested Item(s)	Unit	Limit	MDL	Result
				1
Formaldehyde Release	mg/kg	5	5	ND

### **Remark:**

MDL = method detection limit

ND = Not detected, less than MDL

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

## TEST RESULT

### Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol (PCP) content as specified in entry 22 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: With reference to ISO 17070:2015, analysis was performed by GC-MS.  
With reference to §64 LFGB B 82.02.8-2001, analysis was performed by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					1
Pentachlorophenol (PCP)	87-86-5	mg/kg	1000	0.5	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

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

## TEST RESULT

### Migration of Certain Elements

Test Request: Migration of certain elements as specified in the Toy Safety Directive 2009/48/EC and its amendment Directive (EU) 2017/738.

Test Method: Extractable Organic Tin –With reference to EN 71 Part 3:2013+A2:2017, analysis was performed by GC-MS.  
General elements – With reference to EN 71 Part 3:2013+A2:2017, analysis was performed by ICP-MS.  
Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013+A2:2017, analysis was performed by HPLC-ICP-MS.

Test Item(s):	Unit	Result	
		2	3
Category Type		III	III
Extractable Lead (Pb)	mg/kg	ND	ND
Extractable Antimony (Sb)	mg/kg	ND	ND
Extractable Arsenic (As)	mg/kg	ND	ND
Extractable Barium (Ba)	mg/kg	ND	ND
Extractable Cadmium (Cd)	mg/kg	ND	ND
Extractable Mercury (Hg)	mg/kg	ND	ND
Extractable Selenium (Se)	mg/kg	ND	ND
Extractable Boron (B)	mg/kg	ND	ND
Extractable Cobalt (Co)	mg/kg	ND	ND
Extractable Manganese (Mn)	mg/kg	ND	ND
Extractable Strontium (Sr)	mg/kg	ND	ND
Extractable Zinc (Zn)	mg/kg	ND	ND
Extractable Copper (Cu)	mg/kg	ND	ND
Extractable Aluminum (Al)	mg/kg	78.6	227
Extractable Nickel (Ni)	mg/kg	ND	ND
Extractable Tin (Sn)	mg/kg	ND	ND
Extractable Organic Tin <sup>#1</sup>	mg/kg	ND	ND
Extractable Chromium <sup>#2</sup>	mg/kg	ND	-
Extractable Chromium (III) (Cr III)	mg/kg	-	ND
Extractable Chromium (VI) (Cr VI)	mg/kg	-	ND

#### Remarks:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

As per client's request, only the appointed materials have been tested.

#### Note:

<sup>#1</sup> - The migration of organic tin is expressed as tributyltin.

<sup>#2</sup> - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

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

## TEST RESULT

Limits –MDL per category type:

Test Item(s):	Unit	Limit	MDL	Limit	MDL	Limit	MDL
Category Type		I		II		III	
Extractable Lead (Pb)	mg/kg	2.0	1	0.5	0.2	23	10
Extractable Antimony (Sb)	mg/kg	45	5	11.3	1	560	10
Extractable Arsenic (As)	mg/kg	3.8	0.2	0.9	0.1	47	5
Extractable Barium (Ba)	mg/kg	1500	50	375	10	18750	50
Extractable Cadmium (Cd)	mg/kg	1.3	0.1	0.3	0.05	17	1
Extractable Mercury (Hg)	mg/kg	7.5	0.5	1.9	0.2	94	10
Extractable Selenium (Se)	mg/kg	37.5	2	9.4	1	460	10
Extractable Boron (B)	mg/kg	1200	50	300	10	15000	50
Extractable Cobalt (Co)	mg/kg	10.5	1	2.6	0.2	130	10
Extractable Manganese (Mn)	mg/kg	1200	50	300	10	15000	50
Extractable Strontium (Sr)	mg/kg	4500	50	1125	50	56000	50
Extractable Zinc (Zn)	mg/kg	3750	50	938	50	46000	50
Extractable Copper (Cu)	mg/kg	622.5	10	156	10	7700	50
Extractable Aluminum (Al)	mg/kg	5625	50	1406	50	70000	50
Extractable Nickel (Ni)	mg/kg	75	5	18.8	2	930	10
Extractable Tin (Sn)	mg/kg	15000	50	3750	50	180000	50
Extractable Organic Tin <sup>#1</sup>	mg/kg	0.9	0.2	0.2	0.2	12	0.2
Extractable Chromium <sup>#2</sup>	mg/kg	-	0.02	-	0.005	-	0.02
Extractable Chromium (III) (Cr III)	mg/kg	37.5	2	9.4	1	460	10
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.02	0.005	0.005	0.2	0.1

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-“ = Not Regulated

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