

# TEST REPORT

**APPLICANT** : Xindao B.V.

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**SAMPLE DESCRIPTION** : A5 Deluxe design notebook cover

**ITEM NO.** : P773.08

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 19-Sep-2017

**SAMPLE RESUBMISSION DATE** : 06-Dec-2017

**TURN AROUND TIME** : 19-Sep-2017 to 11-Dec-2017

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

| TEST REQUESTED                          | TEST METHOD/REGULATION   | RESULT |
|---|--|--------|
| Total Lead Content                      | REACH Annex XVII, Entry 63                                       | Pass   |
| Polycyclic Aromatic Hydrocarbons (PAHs) | German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs) | Pass   |
| Polycyclic Aromatic Hydrocarbons (PAHs) | REACH Annex XVII, Entry 50                                       | Pass   |
| Banned AZO Dyes                         | REACH Annex XVII, Entry 43                                       | 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.*

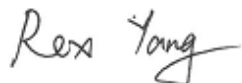
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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

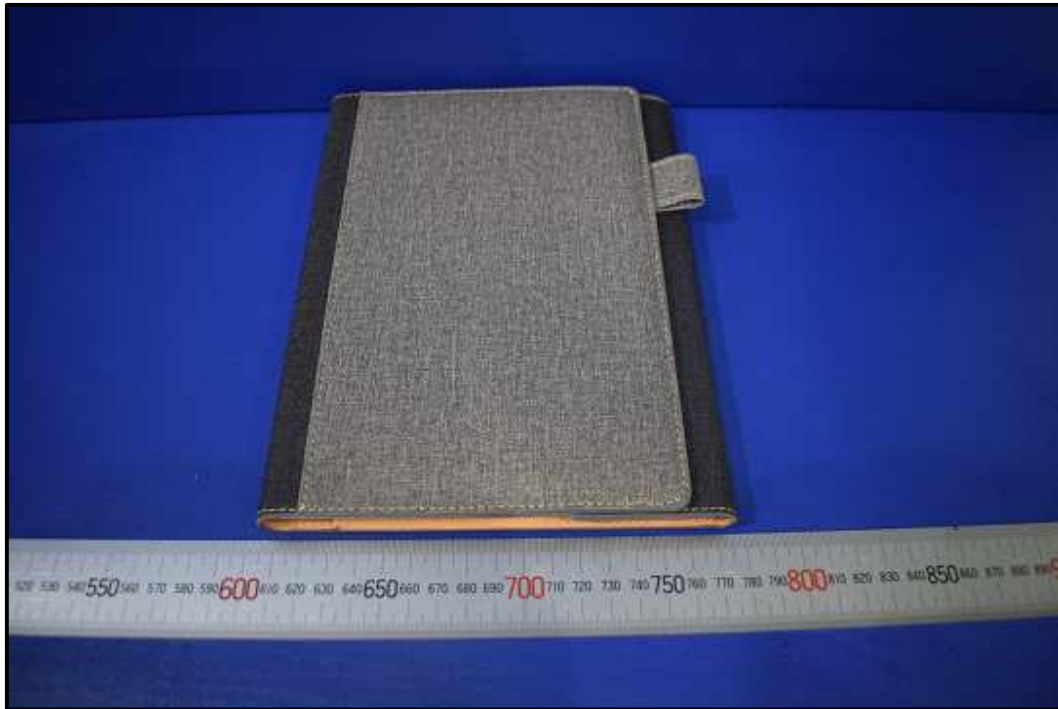
Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



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Rex Yang  
Assistant Chemical Lab Manager

**SAMPLE PHOTO**



**EFSH17091600-CG-01**

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

## **COMPONENT LIST**

| <b>Component No.</b> | <b>Component</b>         |
|----------------------|--------------------------|
| 1                    | Grey coating (piping)    |
| 2                    | Black soft plastic       |
| 3                    | Khaki artificial leather |
| 4                    | Black artificial leather |
| 5                    | Grey artificial leather  |

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

## **TEST RESULT**

### **Total Lead Content**

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

| Tested Item(s) | Unit | Limit | MDL   | Result  |    |       |
|----------------|------|-------|-------|---------|----|-------|
|                |      |       |       | 1       | 2  | 3+4+5 |
| Total Lead(Pb) | %    | 0.05  | 0.001 | 0.00425 | ND | ND    |

### **Remark:**

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

| Parameter   | CAS No.   | Unit  | Result |       |
|---|---|-------|--------|-------|
|   |   |       | 2      | 3+4   |
| Benzo(a)pyrene  | 50-32-8   | mg/kg | ND     | ND    |
| Benzo(e)pyrene  | 192-97-2  | mg/kg | ND     | ND    |
| Benzo(a)anthracene  | 56-55-3   | mg/kg | ND     | ND    |
| Benzo(b)fluoranthene  | 205-99-2  | mg/kg | ND     | ND    |
| Benzo(j)fluoranthene  | 205-82-3  | mg/kg | ND     | ND    |
| Benzo(k)fluoranthene  | 207-08-9  | mg/kg | ND     | ND    |
| Chrysene  | 218-01-9  | mg/kg | ND     | ND    |
| Dibenzo(a,h)anthracene  | 53-70-3   | mg/kg | ND     | ND    |
| Benzo(ghi)perylene  | 191-24-2  | mg/kg | ND     | ND    |
| Indeno(1,2,3-cd)pyrene  | 193-39-5  | mg/kg | ND     | ND    |
| Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | -   | mg/kg | ND     | 0.227 |
| Naphthalene   | 91-20-3   | mg/kg | 0.383  | 0.563 |
| Sum 18 PAHs   | -   | mg/kg | 0.383  | 0.790 |
| Conclusion:   | For Category 2<br>(Other products under ProdSG) |       | Pass   | Pass  |

**Remark:**

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

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

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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

## TEST RESULT

**Table 1**

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

| Parameter  | Unit  | Category 1<br>Materials indented to be put in the mouth, or materials of toys intended long term skin contact (longer than 30s) | Category 2<br>Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact |                             | Category 3<br>Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact) |                             |
|--|-------|---|--|-----------------------------|---|-----------------------------|
|  |       | -   | Toys under Directive 2009/48/EC  | Other products under ProdSG | Toys under Directive 2009/48/EC   | Other products under ProdSG |
| Benzo(a)pyrene   | mg/kg | <0.2  | <0.2   | <0.5                        | <0.5  | <1                          |
| Benzo(e)pyrene   | 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(ghi)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                          |
| Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | mg/kg | <1<br>Sum*  | <5<br>Sum*   | <10<br>Sum*                 | <20<br>Sum*   | <50<br>Sum*                 |
| Naphthalene  | mg/kg | <1  | <2   |                             | <10   |                             |
| Sum* 18 PAHs   | mg/kg | <1  | <5   | <10                         | <20   | <50                         |

\* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

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

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement.

| Tested Item(s)   | CAS No.  | Unit  | Limit | MDL | Result |     |
|--|----------|-------|-------|-----|--------|-----|
|  |          |       |       |     | 2      | 3+4 |
| For rubber or plastic will direct contact with skin and mouth. |          |       |       |     |        |     |
| Benzo(a)anthracene   | 56-55-3  | mg/kg | 1     | 0.2 | ND     | ND  |
| Chrysene   | 218-01-9 | mg/kg | 1     | 0.2 | ND     | ND  |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 1     | 0.2 | ND     | ND  |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 1     | 0.2 | ND     | ND  |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 1     | 0.2 | ND     | ND  |
| Benzo(a)pyrene   | 50-32-8  | mg/kg | 1     | 0.2 | ND     | ND  |
| Dibenzo(a,h)anthracene   | 53-70-3  | mg/kg | 1     | 0.2 | ND     | ND  |
| Benzo(e)pyrene   | 192-97-2 | mg/kg | 1     | 0.2 | ND     | 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.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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



## TEST RESULT

### Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: BS EN ISO 14362-1:2017  
5-60 mg/kg quantitative, >60 mg/kg semi quantitative.

| Tested Item(s)                            | CAS No.  | Unit  | Limit | MDL | Result |
|---|----------|-------|-------|-----|--------|
|   |          |       |       |     | 3+4+5  |
| 4-Aminobiphenyl                           | 92-67-1  | mg/kg | 30    | 5   | ND     |
| 4,4'-Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND     |
| 4-Chloro-2-methylaniline                  | 95-69-2  | mg/kg | 30    | 5   | ND     |
| 2-Naphthylamine                           | 91-59-8  | mg/kg | 30    | 5   | ND     |
| o-Aminoazotoluene (Note 1)                | 97-56-3  | mg/kg | 30    | 5   | ND     |
| 5-Nitro-o-toluidine (Note 2)              | 99-55-8  | mg/kg | 30    | 5   | ND     |
| 4-Chloroaniline                           | 106-47-8 | mg/kg | 30    | 5   | ND     |
| 4-Methoxy-1,3-phenylenediamine            | 615-05-4 | mg/kg | 30    | 5   | ND     |
| Bis-(4-aminophenyl)methane                | 101-77-9 | mg/kg | 30    | 5   | ND     |
| 3,3'-Dichlorobenzidine                    | 91-94-1  | mg/kg | 30    | 5   | ND     |
| 3,3'-Dimethoxybenzidine                   | 119-90-4 | mg/kg | 30    | 5   | ND     |
| 3,3'-Dimethylbenzidine                    | 119-93-7 | mg/kg | 30    | 5   | ND     |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | mg/kg | 30    | 5   | ND     |
| 2-Methoxy-5-methylaniline                 | 120-71-8 | mg/kg | 30    | 5   | ND     |
| 4,4'-Methylene bis(o-chloroaniline)       | 101-14-4 | mg/kg | 30    | 5   | ND     |
| 4,4'-Oxydianiline                         | 101-80-4 | mg/kg | 30    | 5   | ND     |
| 4,4'-Thiodianiline                        | 139-65-1 | mg/kg | 30    | 5   | ND     |
| o-Tolidine                                | 95-53-4  | mg/kg | 30    | 5   | ND     |
| 2,4-Diaminotoluene                        | 95-80-7  | mg/kg | 30    | 5   | ND     |
| 2,4,5-Trimethylaniline                    | 137-17-7 | mg/kg | 30    | 5   | ND     |
| o-Anisidine                               | 90-04-0  | mg/kg | 30    | 5   | ND     |
| 4-Amino-azobenzene (Note 3)               | 60-09-3  | mg/kg | 30    | 5   | ND     |

### Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.

Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.

Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

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