

# TEST REPORT

**APPLICANT** : Xindao B.V.

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

**SAMPLE DESCRIPTION** : Bobby Elle anti-theft backpack

**ITEM NO.** : P705.22

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 29-Sep-2018

**TURN AROUND TIME** : 29-Sep-2018 to 23-Oct-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          |
|---|---|-----------------|
| Total Lead Content                      | REACH Annex XVII, Entry 63  | Pass            |
| Nickel Release                          | REACH Annex XVII, Entry 27  | Pass            |
| Phthalates Content                      | REACH Annex XVII, Entry 51 & 52   | Pass            |
| Formaldehyde Content                    | ISO 14184-1-2011  | Pass            |
| Banned AZO Dyes                         | REACH Annex XVII, Entry 43  | 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            |
| SCCP Content                            | Regulation (EC) No 850/2004 (Persistent Organic Pollutants, POPs) and its amendment Regulation (EU) 2015/2030 | Pass            |
| Abrasion resistance                     | ISO 5470-2 :2003  | See Test Result |

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., Ltd. If you happen to have any complaints, please do it by sending email to [china.complaint@eurofins.com](mailto: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



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Joyce Liu  
Lab Manager

## SAMPLE PHOTOS



**EFSH18092208-CG-01**

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

## SAMPLE PHOTOS



**EFSH18092208-CG-01**

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

## **COMPONENT LIST**

| <b>Component No.</b> | <b>Component</b>                   |
|----------------------|------------------------------------|
| 1                    | Black artificial leather           |
| 2                    | Navy artificial leather            |
| 3                    | Pink artificial leather            |
| 4                    | Light grey artificial leather      |
| 5                    | Grey artificial leather            |
| 6                    | Blue artificial leather            |
| 7                    | Brown artificial leather           |
| 8                    | Black plastic zipper teeth         |
| 9                    | Navy plastic zipper teeth          |
| 10                   | Light grey plastic zipper teeth    |
| 11                   | Dark grey plastic zipper teeth     |
| 12                   | Pink plastic zipper teeth          |
| 13                   | Grey blue plastic zipper teeth     |
| 14                   | Brown plastic zipper teeth         |
| 15                   | Beige plastic zipper teeth         |
| 16                   | Grey plastic zipper teeth          |
| 17                   | Jean fabric                        |
| 18                   | Beige fabric lining                |
| 19                   | Grey blue fabric lining            |
| 20                   | Silver metal with coating (buckle) |

\*\*\*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+6+7 | 8+9+10 |
| Total Lead(Pb) | %    | 0.05  | 0.001 | ND     | ND    | ND    | ND     |

| Tested Item(s) | Unit | Limit | MDL   | Result   |          |
|----------------|------|-------|-------|----------|----------|
|                |      |       |       | 11+12+13 | 14+15+16 |
| Total Lead(Pb) | %    | 0.05  | 0.001 | ND       | ND       |

### Remark:

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

### Nickel Release

Test Request: Nickel release as specified in regulation (EC) No 552/2009 amending entry 27 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: (1) According to EN1811:2011+A1:2015  
(2) According to EN1811:2011+A1:2015, after wear and corrosion according to EN 12472:2005 + A1:2009.

| Test Item      | Unit                                  | MDL | Test Result (*) |
|----------------|---------------------------------------|-----|-----------------|
|                |                                       |     | 20              |
| Nickel Release | $\mu\text{g}/\text{cm}^2/\text{week}$ | 0.1 | ND              |

#### Note:

MDL = method detection limit

ND = not detected, less than MDL.

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

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

#### Remark:

\* For materials and articles coming into direct and prolonged contact with the skin the migration limit is 0.5  $\mu\text{g}/\text{cm}^2/\text{week}$ . According to EN 1811:2011+A1:2015, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less than 0.88  $\mu\text{g}/\text{cm}^2/\text{week}$ .

| Limit<br>( $\mu\text{g}/\text{cm}^2/\text{week}$ ) | Test result<br>( $\mu\text{g}/\text{cm}^2/\text{week}$ ) | Conclusion according to<br>EN1811:2011+A1:2015 |
|--|--|--|
| 0.5  | <0.88  | Pass   |
|  | $\geq 0.88$  | Fail   |

\* For materials and articles which are inserted into pierced ears or other pierced parts of human body the migration limit is 0.2  $\mu\text{g}/\text{cm}^2/\text{week}$ . According to EN 1811:2011+A1:2015, considering the combined measurement uncertainty of the method, these materials/articles shall be accepted and be permitted to be placed on the market if the measured nickel release value is less than 0.35  $\mu\text{g}/\text{cm}^2/\text{week}$ .

| Limit<br>( $\mu\text{g}/\text{cm}^2/\text{week}$ ) | Test result<br>( $\mu\text{g}/\text{cm}^2/\text{week}$ ) | Conclusion according to<br>EN1811:2011+A1:2015 |
|--|--|--|
| 0.2  | <0.35  | Pass   |
|  | $\geq 0.35$  | Fail   |

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

## **TEST RESULT**

### **Phthalates Content**

Test Request: Phthalates Content as specified in Regulation (EU) 2015/326 amending entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

| Tested Item(s)               | CAS No.    | Unit | Limit | MDL   | Result |       |       |
|------------------------------|------------|------|-------|-------|--------|-------|-------|
|                              |            |      |       |       | 1      | 2+3+4 | 5+6+7 |
| Dibutylphthalate (DBP)       | 84-74-2    | %    | -     | 0.005 | ND     | ND    | ND    |
| Benzylbutylphthalate (BBP)   | 85-68-7    | %    | -     | 0.005 | ND     | ND    | ND    |
| Diethylhexylphthalate (DEHP) | 117-81-7   | %    | -     | 0.005 | ND     | ND    | ND    |
| Sum (DBP + BBP + DEHP)       | -          | %    | 0.1   | -     | ND     | ND    | ND    |
| Di-n-octylphthalate (DNOP)   | 117-84-0   | %    | -     | 0.005 | ND     | ND    | ND    |
| Diisononylphthalate (DINP)   | 28553-12-0 | %    | -     | 0.005 | ND     | ND    | ND    |
| Diisodecylphthalate (DIDP)   | 26761-40-0 | %    | -     | 0.005 | ND     | ND    | ND    |
| Sum (DNOP + DINP + DIDP)     | -          | %    | 0.1   | -     | ND     | 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.

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

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



## **TEST RESULT**

### **Formaldehyde Content**

Test Method: ISO 14184-1:2011, free and hydrolized formaldehyde (water extraction method).

Limit: According to client's requirement.

| Tested Item(s) | CAS No. | Unit  | Limit | MDL | Result |
|----------------|---------|-------|-------|-----|--------|
|                |         |       |       |     | 17     |
| Formaldehyde   | 50-00-0 | mg/kg | 75    | 16  | ND     |

#### **Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

"-" = Not regulated

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

\*\*\*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 |       |
|---|----------|-------|-------|-----|--------|-------|
|   |          |       |       |     | 17     | 18+19 |
| 4-Aminobiphenyl                           | 92-67-1  | mg/kg | 30    | 5   | ND     | ND    |
| 4,4'-Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND     | ND    |
| 4-Chloro-2-methylaniline                  | 95-69-2  | mg/kg | 30    | 5   | ND     | ND    |
| 2-Naphthylamine                           | 91-59-8  | mg/kg | 30    | 5   | ND     | ND    |
| o-Aminoazotoluene (Note 1)                | 97-56-3  | mg/kg | 30    | 5   | ND     | ND    |
| 5-Nitro-o-toluidine (Note 2)              | 99-55-8  | mg/kg | 30    | 5   | ND     | ND    |
| 4-Chloroaniline                           | 106-47-8 | mg/kg | 30    | 5   | ND     | ND    |
| 4-Methoxy-1,3-phenylenediamine            | 615-05-4 | mg/kg | 30    | 5   | ND     | ND    |
| Bis-(4-aminophenyl)methane                | 101-77-9 | mg/kg | 30    | 5   | ND     | ND    |
| 3,3'-Dichlorobenzidine                    | 91-94-1  | mg/kg | 30    | 5   | ND     | ND    |
| 3,3'-Dimethoxybenzidine                   | 119-90-4 | mg/kg | 30    | 5   | ND     | ND    |
| 3,3'-Dimethylbenzidine                    | 119-93-7 | mg/kg | 30    | 5   | ND     | ND    |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | mg/kg | 30    | 5   | ND     | ND    |
| 2-Methoxy-5-methylaniline                 | 120-71-8 | mg/kg | 30    | 5   | ND     | ND    |
| 4,4'-Methylene bis(o-chloroaniline)       | 101-14-4 | mg/kg | 30    | 5   | ND     | ND    |
| 4,4'-Oxydianiline                         | 101-80-4 | mg/kg | 30    | 5   | ND     | ND    |
| 4,4'-Thiodianiline                        | 139-65-1 | mg/kg | 30    | 5   | ND     | ND    |
| o-Toluidine                               | 95-53-4  | mg/kg | 30    | 5   | ND     | ND    |
| 2,4-Diaminotoluene                        | 95-80-7  | mg/kg | 30    | 5   | ND     | ND    |
| 2,4,5-Trimethylaniline                    | 137-17-7 | mg/kg | 30    | 5   | ND     | ND    |
| o-Anisidine                               | 90-04-0  | mg/kg | 30    | 5   | ND     | ND    |
| 4-Amino-azobenzene (Note 3)               | 60-09-3  | mg/kg | 30    | 5   | ND     | 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.

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

\*\*\*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 |      |
|---|---|-------|--------|------|
|   |   |       | 1      | 2    |
| 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     | ND   |
| Naphthalene   | 91-20-3   | mg/kg | ND     | ND   |
| Sum 18 PAHs   | -   | mg/kg | ND     | ND   |
| 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.

\*\*\*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 |    |
|--|----------|-------|-------|-----|--------|----|
|  |          |       |       |     | 1      | 2  |
| 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.

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

## **TEST RESULT**

### **SCCP Content**

Test Request: SCCP content as specified in Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants as regards Annex I and its amendment Regulation (EU) 2015/2030.

Test Method: EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

| Tested Item(s)  | CAS No.    | Unit | Limit | MDL   | Result |
|---|------------|------|-------|-------|--------|
|   |            |      |       |       | 1      |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | %    | 0.15  | 0.005 | ND     |

### **Remark:**

MDL = method detection limit

ND = Not detected, less than MDL

The production, placing on the market and use of substances or preparations containing SCCPs in concentrations lower than 1 % by weight or articles containing SCCPs in concentrations lower than 0.15 % by weight shall be allowed.

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

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

## **TEST RESULT**

### **Abrasion resistance**

Test Method: ISO 5470-2:2003, method 1, dry test

Abradant : Wool, nominal pressure: 12Kpa

| Test part | Test condition | Result (Grade) |
|-----------|----------------|----------------|
|           |                | 7              |
| PU        | 50000 rubs     | 1              |

Specimen damage rating scale:

|   |             |  |
|---|-------------|--|
| 0 | None        | No change.   |
| 1 | Very slight | Modification of brightness. Printing (if any) shows no wear. No attack of top coat.                                  |
| 2 | Slight      | Change in brightness. Printing (if any) is partially or totally worn. Top coat not attacked only very superficially. |
| 3 | Moderate    | Top coat attacked.   |
| 4 | Severe      | Top coat worn through and intermediate or foam layer attacked.   |
| 5 | complete    | Base fabric appears.   |

**Remark:**

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

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