



# TEST REPORT

**Reference No.** ..... : WTF21F12133550R1C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,  
Hong Kong  
**Manufacturer** ..... : 111903  
**Sample Name** ..... : Shopping bag in canvas  
**Model No.** ..... : MO6458  
**Test Requested** ..... : 1) Determination of Lead content in the submitted sample in accordance  
with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006  
and the amendment No. 836/2012 and (EU) 2015/628  
2) Determination of specified Phthalates content according to Annex  
XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 &  
Amendment No. 552/2009 & No. 2018/2005  
3) Determine the specified AZO Colorants contents in the submitted  
sample in according to the Entries 43 in Annex XVII of the REACH  
Regulation (EC) No.1907/2006 and the Amendment Regulation (EC)  
No.552/ 2009 & No.126/ 2013 (previously restricted under Directive  
2002/61/EC).  
4) As specified by client, determination of the released formaldehyde  
content in submitted sample  
5) As requested by the applicant, to test Colour Fastness to Rubbing in  
the submitted sample.  
**Test Method** ..... : Please refer to next page (s)  
**Test Conclusion** ..... : Please refer to next page (s)  
**Date of Receipt sample** ..... : 2021-12-02 & 2021-12-20  
**Date of Test** ..... : 2021-12-02 to 2021-12-10 & 2021-12-20 to 2021-12-24  
**Date of Issue** ..... : 2021-12-29  
**Test Result** ..... : Please refer to next page (s)  
**Note** ..... : 1) As specified by client, only test the designated sample.  
2) As per applicant's requirement, results of specimen from 1 to 3 are  
extracted from report No.WTF21F12133550C.

## Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

## Prepared By:

**Waltek Testing Group (Foshan) Co., Ltd.**

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,  
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by:

Approved by:

*Rena.Chen*

*Swing Liang*

Rena.Chen / Project Engineer

Swing.Liang / Technical Manager

**Test Result:****1) Lead (Pb)**

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

| Test Item         | LOQ<br>(mg/kg) | Results (mg/kg) |             |             | Limit<br>(mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|------------------|
|                   |                | No.1+No.2       | No.3        | No.4        |                  |
| Lead(Pb)          | 2              | ND*             | ND          | ND          | 500              |
| <b>Conclusion</b> | --             | <b>Pass</b>     | <b>Pass</b> | <b>Pass</b> | --               |

**Note:**

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "\*" = Results are calculated by the minimum weight of mixed components.

# WALTEK



## 2) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| Test Items                           | LOQ (%) | Results (%) | Limit (%)                     |
|--------------------------------------|---------|-------------|-------------------------------|
|                                      |         | No.4        |                               |
| Benzyl butyl phthalate (BBP)         | 0.005   | ND          | sum of four phthalates < 0.1  |
| Di (2-ethyl hexyl)- phthalate (DEHP) | 0.005   | ND          |                               |
| Dibutyl phthalate (DBP)              | 0.005   | ND          |                               |
| Diisobutyl phthalate (DIBP)          | 0.005   | ND          |                               |
| Diisodecyl phthalate (DIDP)          | 0.01    | ND          | sum of three phthalates < 0.1 |
| Diisononyl phthalate (DINP)          | 0.01    | ND          |                               |
| Di-n-octyl phthalate (DNOP)          | 0.005   | ND          |                               |
| <b>Conclusion</b>                    | --      | <b>Pass</b> | --                            |

### Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl phthalate

(1) % = percentage by weight

(2) ND = Not Detected or lower than limit of quantitation

(3) LOQ = Limit of quantitation

(4) "<" = less than

(5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.



### 3) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

| No.               | Amines Substances                         | CAS No.  | Limit (mg/kg) | Result (mg/kg) |
|-------------------|---|----------|---------------|----------------|
|                   |   |          |               | No.1+No.2      |
| 1                 | 4-Aminobiphenyl                           | 92-67-1  | 30            | ND*            |
| 2                 | Benzidine                                 | 92-87-5  | 30            | ND*            |
| 3                 | 4-chloro-o-Toluidine                      | 95-69-2  | 30            | ND*            |
| 4                 | 2-Naphthylamine                           | 91-59-8  | 30            | ND*            |
| 5                 | o-Aminoazotoluene                         | 97-56-3  | 30            | ND*            |
| 6                 | 2-Amino-4-nitrotoluene                    | 99-55-8  | 30            | ND*            |
| 7                 | p-Chloroaniline                           | 106-47-8 | 30            | ND*            |
| 8                 | 2,4-diaminoanisol                         | 615-05-4 | 30            | ND*            |
| 9                 | 4,4'-Diaminodiphenylmethane               | 101-77-9 | 30            | ND*            |
| 10                | 3,3'-Dichlorobenzidine                    | 91-94-1  | 30            | ND*            |
| 11                | 3,3'-Dimethoxybenzidine                   | 119-90-4 | 30            | ND*            |
| 12                | 3,3'-Dimethylbenzidine                    | 119-93-7 | 30            | ND*            |
| 13                | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | 30            | ND*            |
| 14                | p-cresinin                                | 120-71-8 | 30            | ND*            |
| 15                | 4,4'-Methylen-bis-(2-chloroaniline)       | 101-14-4 | 30            | ND*            |
| 16                | 4,4'-Oxydianiline                         | 101-80-4 | 30            | ND*            |
| 17                | 4,4'-Thiodianiline                        | 139-65-1 | 30            | ND*            |
| 18                | o-Toluidine                               | 95-53-4  | 30            | ND*            |
| 19                | 2,4-Toluylendiamine                       | 95-80-7  | 30            | ND*            |
| 20                | 2,4,5 – Trimethylaniline                  | 137-17-7 | 30            | ND*            |
| 21                | o-anisidine                               | 90-04-0  | 30            | ND*            |
| 22                | 4-aminoazobenzene                         | 60-09-3  | 30            | ND*            |
| 23                | 2,4-Xylidin                               | 95-68-1  | 30            | ND*            |
| 24                | 2,6-Xylidin                               | 87-62-7  | 30            | ND*            |
| <b>Conclusion</b> |   |          | --            | <b>Pass</b>    |

#### Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of Quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006
- "\*" = Results are calculated by the minimum weight of mixed components.



#### 4) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

| Test Item                        | Unit  | Result      | LOQ | Client's Limit |
|----------------------------------|-------|-------------|-----|----------------|
|                                  |       | No.3        |     |                |
| Formaldehyde (CH <sub>2</sub> O) | mg/kg | ND          | 10  | 80             |
| <b>Conclusion</b>                | --    | <b>Pass</b> | --  | --             |

**Note:**

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation

#### 5) Colour Fastness to Rubbing

| Colour Fastness to Rubbing                                  |              |             |             |                |
|---|--------------|-------------|-------------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) |              |             |             |                |
|   |              | No.1        | No.2        | Client's Limit |
| Length  | Dry staining | 4-5         | 4-5         | 2-3            |
|   | Wet staining | 3           | 4-5         | 2-3            |
| Width   | Dry staining | 4-5         | 4-5         | 2-3            |
|   | Wet staining | 3           | 4-5         | 2-3            |
| <b>Conclusion</b>   |              | <b>Pass</b> | <b>Pass</b> | --             |

**Note:**

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

**Test Specimen Description:**

No.1: Black fabric

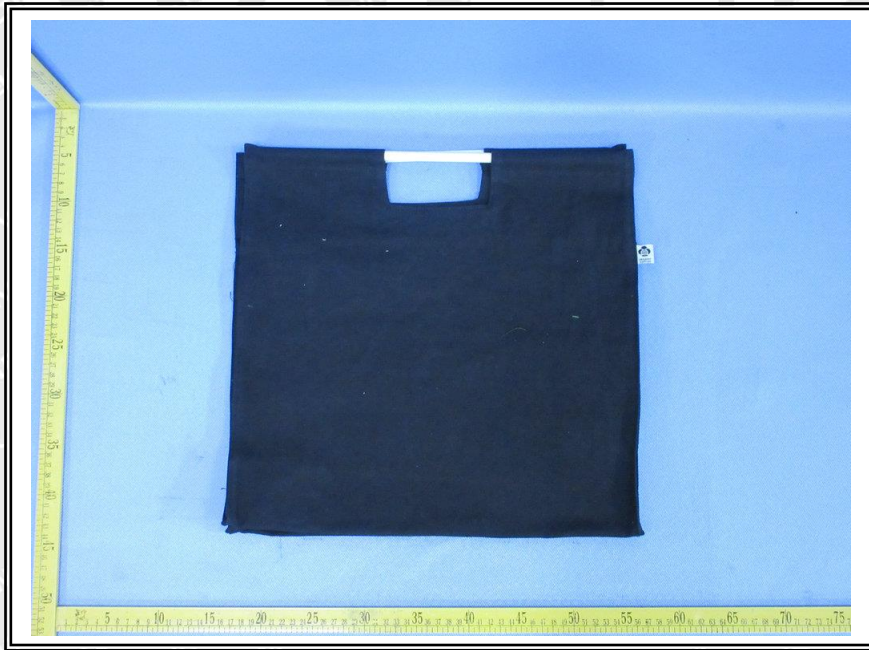
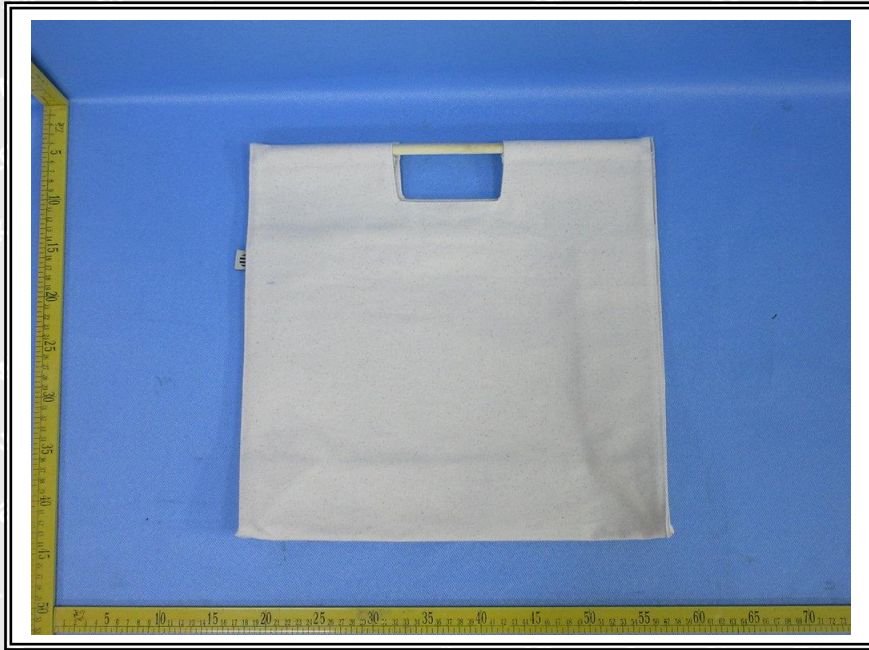
No.2: White fabric

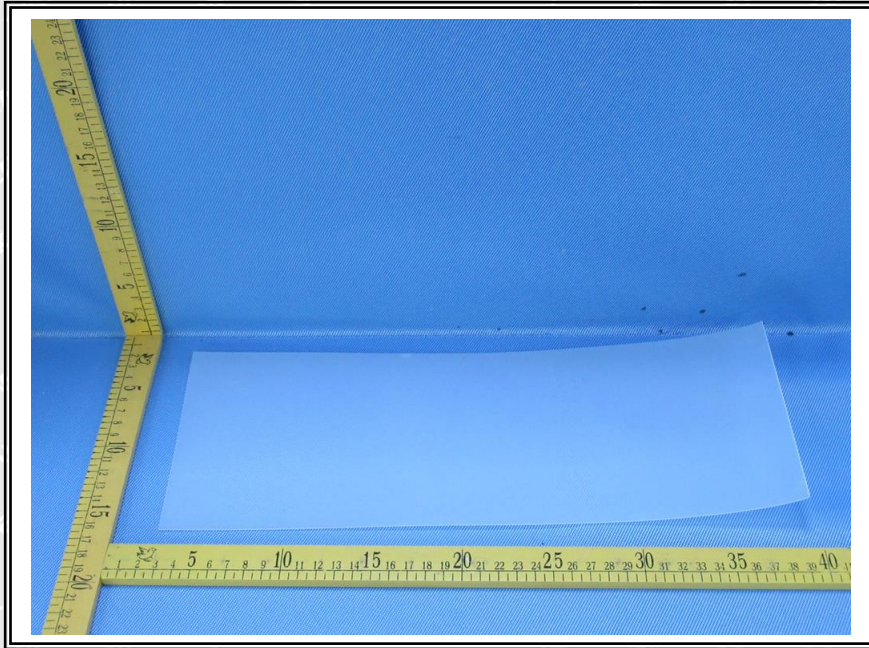
No.3: Brown-yellow wooden strip

No.4: Semi-transparent plastic sheet

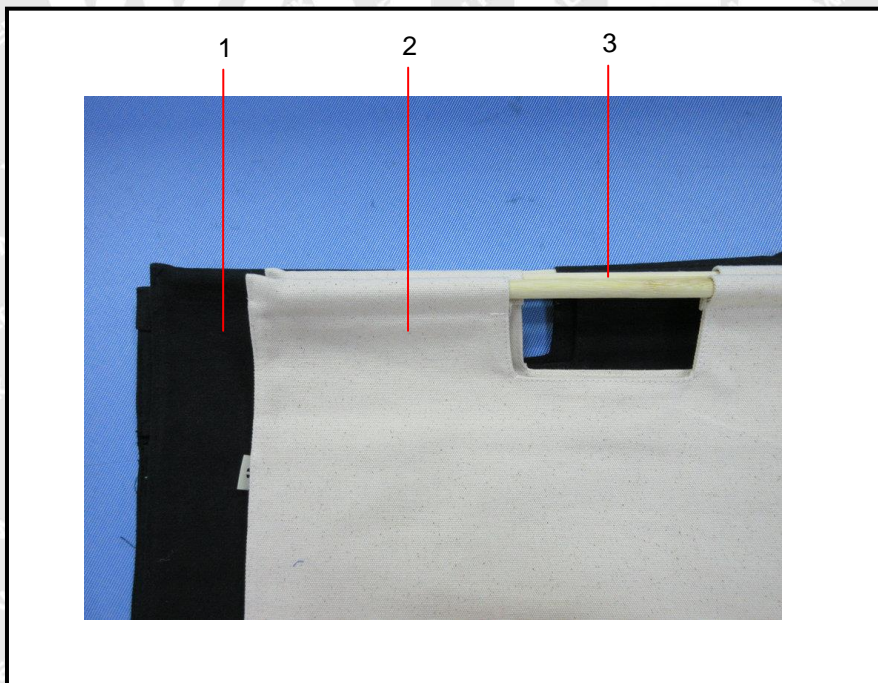


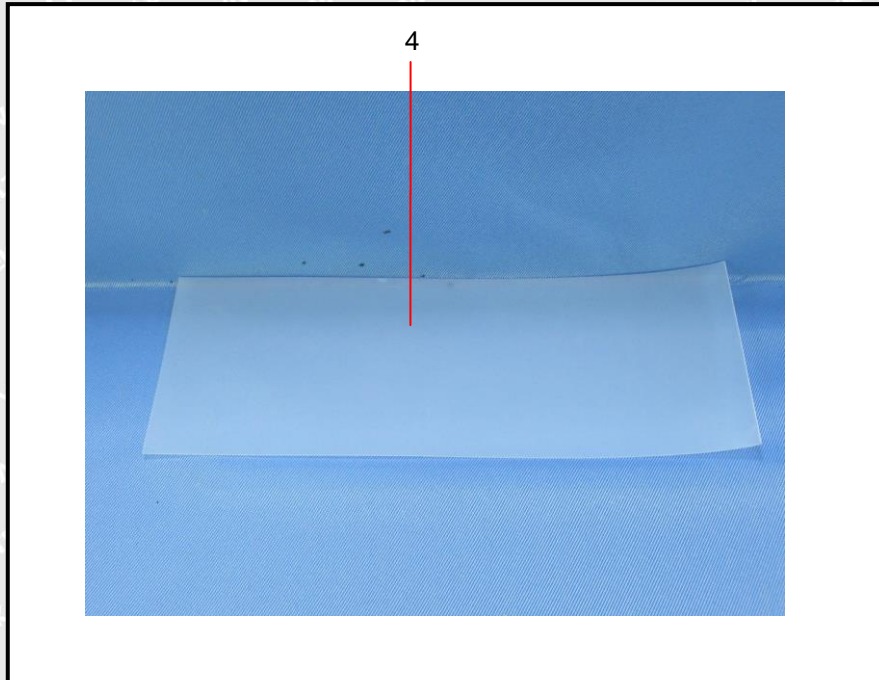
**Sample photo:**





Photograph of parts tested:





===== End of Report =====

# WALTEK