中国认可
国际互认
检测
TESTING
CNAS L6478

# TEST REPORT

| | | |
|---|---|---|
| **Report No.** | : | WTF23F05102624T |
| **Applicant** | : | Mid Ocean Brands B.V. |
| **Address** | : | 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong |
| **Manufacturer** | : | 116737 |
| **Sample Name** | : | MO6167 Picnic cooler bag |
| **Test Requested** | : | In accordance with Regulation (EU) No 10/2011 with amendments, Regulation (EC) No 1935/2004 and Council of Europe Resolution CM/Res(2013)9. |
| **Test Conclusion** | : | **Pass** (Please refer to next pages for details) |
| **Date of Receipt sample** | : | 2023-05-11 |
| **Testing period** | : | 2023-05-11 to 2023-05-19 |
| **Date of Issue** | : | 2023-05-19 |
| **Test Result** | : | Refer to next page (s) |

**Prepared By:**


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

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Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Jessise Liu

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**Test Results:**

**1. Overall Migration Test**

| Food Simulant | Test Condition | Result ($mg/dm^2$) | | | LOQ ($mg/dm^2$) | Limit ($mg/dm^2$) |
|---|---|---|---|---|---|---|
| | | No.1 | | | | |
| | | 1st Migration | 2nd Migration | 3rd Migration | | |
| 3% Acetic Acid | 70°C for 2 hours | ND | ND | ND | 3.0 | 3rd Migration:10, 3rd<2nd<1st |
| 10% Ethanol | 70°C for 2 hours | ND | ND | ND | 3.0 | 3rd Migration:10, 3rd<2nd<1st |
| 95% Ethanol | 60°C for 2 hours | 4.6 | 3.4 | ND | 3.0 | 3rd Migration:10, 3rd<2nd<1st |
| Isooctane | 40°C for 0.5 hour | ND | ND | ND | 3.0 | 3rd Migration:10, 3rd<2nd<1st |

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2022
2. "$mg/dm^2$" = milligram per square decimetre
3. "°C" = Celsius degree
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752, (EU)2019/37 and (EU) 2020/1245.

**2. Specific Migration of heavy metal**

| Test Items | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) | |
|---|---|---|---|---|---|---|
| | No.1 | | | | | |
| | 1st Migration | 2nd Migration | 3rd Migration | | | |
| Nickel (Ni) | ND | ND | ND | 0.01 | 3rd Migration:0.02, 3rd<2nd<1st | |
| Aluminium (Al) | ND | ND | ND | 0.1 | 3rd Migration:1 3rd<2nd<1st | |
| Barium (Ba) | ND | ND | ND | 0.1 | 3rd Migration:1 3rd<2nd<1st | |
| Cobalt (Co) | ND | ND | ND | 0.01 | 3rd Migration:0.05 3rd<2nd<1st | |
| Copper (Cu) | ND | ND | ND | 0.1 | 3rd Migration:5 3rd<2nd<1st | |
| Iron (Fe) | ND | ND | ND | 0.1 | 3rd Migration:48 3rd<2nd<1st | |
| Lithium (Li) | ND | ND | ND | 0.01 | 3rd Migration:0.6 3rd<2nd<1st | |
| Manganese (Mn) | ND | ND | ND | 0.01 | 3rd Migration:0.6 3rd<2nd<1st | |
| Zinc (Zn) | ND | ND | ND | 0.1 | 3rd Migration:5 3rd<2nd<1st | |
| Antimony (Sb) | ND | ND | ND | 0.01 | 3rd Migration:0.04 3rd<2nd<1st | |
| Arsenic (As) | ND | ND | ND | 0.01 | Not detected | |
| Cadmium (Cd) | ND | ND | ND | 0.002 | Not detected | |
| Chromium (Cr) | ND | ND | ND | 0.01 | Not detected | |
| Mercury (Hg) | ND | ND | ND | 0.01 | Not detected | |
| Lead (Pb) | ND | ND | ND | 0.01 | Not detected | |
| Europeum (Eu) | ND | ND | ND | 0.02 | 3rd Migration:0.05 3rd<2nd<1st | Sum< 0.05 |
| Gadolinium (Gd) | ND | ND | ND | 0.02 | 3rd Migration:0.05 3rd<2nd<1st | |
| Lanthanum (La) | ND | ND | ND | 0.02 | 3rd Migration:0.05 3rd<2nd<1st | |
| Terbium (Tb) | ND | ND | ND | 0.02 | 3rd Migration:0.05 3rd<2nd<1st | |

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by ICP-MS.
2. “mg/kg” = milligram per kilogram of foodstuff in contact with
3. ND = Not Detected or lower than limit of quantitation
4. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

**3. Specific Migration of Primary Aromatic Amines**

| Test Item | Result (mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|---|---|---|---|---|---|
| | No.1 | | | | |
| | 1st Migration | 2nd Migration | 3rd Migration | | |
| Migration of Primary aromatic amines | ND | ND | ND | 0.01 | Not detected |

Note:

1. Test Method: With reference to § 64 LFGB L No. 00.00-6, analysis was performed by UV-visible Spectrometer.
2. Test Condition and simulant: 3% acetic acid at 70°C for 2 hours.
3. “mg/kg” = milligram per kilogram of foodstuff in contact with
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

**4. Specific Migration of Primary Aromatic Amines (single substance)***

| Test Items | CAS No. | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|---|---|---|---|---|---|---|
| | | No.1 | | | | |
| | | 1st Migration | 2nd Migration | 3rd Migration | | |
| 2-methoxyaniline | 90-04-0 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-Diaminobiphenyl | 92-87-5 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-Methylen-bis-(2-chloroaniline) | 101-14-4 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-Diaminodiphenylmethane | 101-77-9 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-Oxydianiline | 101-80-4 | ND | ND | ND | 0.002 | Not Detected |
| 4-chloroaniline | 106-47-8 | ND | ND | ND | 0.002 | Not Detected |
| 3,3'-Dimethoxybenzidine | 119-90-4 | ND | ND | ND | 0.002 | Not Detected |
| 3,3'-Dimethylbenzidine | 119-93-7 | ND | ND | ND | 0.002 | Not Detected |
| 2-Methoxy-5-methylaniline | 120-71-8 | ND | ND | ND | 0.002 | Not Detected |
| 2,4,5 – Trimethylaniline | 137-17-7 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-Thiodianiline | 139-65-1 | ND | ND | ND | 0.002 | Not Detected |
| 4-aminoazobenzene | 60-09-3 | ND | ND | ND | 0.002 | Not Detected |
| 2,4-diaminoanisol | 615-05-4 | ND | ND | ND | 0.002 | Not Detected |
| 4,4'-diamino-3,3'-dimethyldiphenylmethane | 838-88-0 | ND | ND | ND | 0.002 | Not Detected |
| 2-Naphthylamine | 91-59-8 | ND | ND | ND | 0.002 | Not Detected |
| 3,3'-Dichlorobenzidine | 91-94-1 | ND | ND | ND | 0.002 | Not Detected |
| 4-Aminobiphenyl | 92-67-1 | ND | ND | ND | 0.002 | Not Detected |
| 2-methylaniline | 95-53-4 | ND | ND | ND | 0.002 | Not Detected |
| 4-chloro-o-Toluidine | 95-69-2 | ND | ND | ND | 0.002 | Not Detected |
| 2,4-Toluylendiamine | 95-80-7 | ND | ND | ND | 0.002 | Not Detected |
| 2,4-Aminoazotoluene | 97-56-3 | ND | ND | ND | 0.002 | Not Detected |
| 2-Amino-4-nitrotoluene | 99-55-8 | ND | ND | ND | 0.002 | Not Detected |
| 2,4-Xylidin | 95-68-1 | ND | ND | ND | 0.002 | Not Detected |
| 2,6-Xylidin | 87-62-7 | ND | ND | ND | 0.002 | Not Detected |
| 1, 3 - phenylene diamine | 108-45-2 | ND | ND | ND | 0.002 | Not Detected |

Note:

1. Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS-MS.
2. Test Condition and simulant: 3% acetic acid at 70°C for 2 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendment (EU) 2020/1245.
6. The testing item marked with '*' does not been accredited by CNAS.

**5. Bisphenol A Content***

| Test Item | Result (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|---|---|---|---|
| | No.1 | | |
| Bisphenol A | ND | 0.1 | Not Detected |

Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by LC-MS-MS.
2. “mg/kg” = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from Law No 2012-1442.
6. The testing item marked with ‘*’ does not been accredited by CNAS.

**6. Council of Europe Resolution CM/Res(2013)9-Specific Migration of Heavy Metal**

| Test Items | 1st+2nd Migration (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|---|---|---|---|
| | No.2 | | |
| Aluminium (Al) | ND | 0.2 | 35 |
| Antimony (Sb) | ND | 0.02 | 0.28 |
| Chromium (Cr) | ND | 0.04 | 1.75 |
| Cobalt (Co) | ND | 0.02 | 0.14 |
| Copper (Cu) | ND | 0.2 | 28 |
| Iron (Fe) | 0.4 | 0.4 | 280 |
| Manganese (Mn) | ND | 0.2 | 12.6 |
| Molybdenum (Mo) | ND | 0.02 | 0.84 |
| Nickel (Ni) | ND | 0.02 | 0.98 |
| Silver (Ag) | ND | 0.02 | 0.56 |
| Tin (Sn) | ND | 0.2 | 700 |
| Vanadium (V) | ND | 0.01 | 0.07 |
| Zinc (Zn) | ND | 0.2 | 35 |
| Arsenic (As) | ND | 0.002 | 0.014 |
| Barium (Ba) | ND | 0.2 | 8.4 |
| Beryllium (Be) | ND | 0.01 | 0.07 |
| Cadmium (Cd) | ND | 0.002 | 0.035 |
| Lead (Pb) | ND | 0.01 | 0.07 |
| Lithium (Li) | ND | 0.01 | 0.336 |
| Mercury (Hg) | ND | 0.002 | 0.021 |
| Thallium (Tl) | ND | 0.0002 | 0.0007 |
| Magnesium (Mg) | ND | 0.2 | -- |
| Titanium (Ti) | ND | 0.02 | -- |

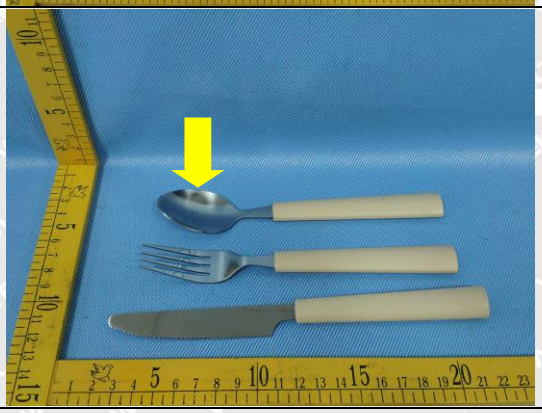
| Test Items | 3rd Migration (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|---|---|---|---|
| | No.2 | | |
| Aluminium (Al) | ND | 0.1 | 5 |
| Antimony (Sb) | ND | 0.01 | 0.04 |
| Chromium (Cr) | ND | 0.02 | 0.25 |
| Cobalt (Co) | ND | 0.01 | 0.02 |
| Copper (Cu) | ND | 0.1 | 4 |
| Iron (Fe) | ND | 0.2 | 40 |
| Manganese (Mn) | ND | 0.1 | 1.8 |
| Molybdenum (Mo) | ND | 0.01 | 0.12 |
| Nickel (Ni) | ND | 0.01 | 0.14 |
| Silver (Ag) | ND | 0.01 | 0.08 |
| Tin (Sn) | ND | 0.1 | 100 |
| Vanadium (V) | ND | 0.005 | 0.01 |
| Zinc (Zn) | ND | 0.1 | 5 |
| Arsenic (As) | ND | 0.001 | 0.002 |
| Barium (Ba) | ND | 0.1 | 1.2 |
| Beryllium (Be) | ND | 0.005 | 0.01 |
| Cadmium (Cd) | ND | 0.001 | 0.005 |
| Lead (Pb) | ND | 0.005 | 0.01 |
| Lithium (Li) | ND | 0.005 | 0.048 |
| Mercury (Hg) | ND | 0.001 | 0.003 |
| Thallium (Tl) | ND | 0.0001 | 0.0001 |
| Magnesium (Mg) | ND | 0.1 | -- |
| Titanium (Ti) | ND | 0.01 | -- |

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 70°C for 2 hours.
3. “mg/kg” = milligram per kilogram of foodstuff in contact with
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. “--” = Not regulated
7. The specification was quoted from Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.

**Sample description:**
No.1: Beige plastic (PP)
No.2: Silvery metal (Stainless steel)

**Photograph of parts tested:**

| No. | Photo of testing part | Parts Description | Client Claimed Material |
|---|---|---|---|
| 1 |  | Beige plastic | PP |
| 2 |  | Silvery metal | Stainless steel |

Remarks:
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====== End of Report ======