



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Report No. : WTF24F04086645A1X1T

Applicant..... : Mid Ocean Brands B.V.

Address..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Manufacturer : 111587

Sample Name : 600D RPET lunch cooler bag

Sample Model..... : MO6287,MO6286

Test Requested : In accordance with Regulation (EU) No 10/2011, French Décret n°2007-766 with amendments and Regulation (EC) No 1935/2004.

Test Conclusion : **Pass** (Please refer to next pages for details)

Date of Receipt sample : 2024-04-17 & 2024-05-16

Testing period : 2024-04-17 to 2024-04-26 & 2024-05-16 to 2024-05-28

Date of Issue..... : 2024-07-29

Test Result..... : Refer to next page (s)

Note : This report is based on Waltek test report WTF24F04086645A1T for revising, and replaced report WTF24F04086645A1T.

Prepared By:

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

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Report No.: WTF24F04086645A1X1T

Test Results:

1. Overall Migration Test

| Food Simulant | Test Condition | Result (mg/dm ²) | | | LOQ (mg/dm ²) | Limit (mg/dm ²) |
|----------------|------------------|------------------------------|---------------------------|---------------------------|---------------------------|--|
| | | No.1 | | | | |
| | | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| 3% Acetic Acid | 70°C for 2 hours | ND | ND | ND | 3.0 | 3 rd Migration:10, 3 rd <2 nd <1 st |
| 10% Ethanol | 70°C for 2 hours | ND | ND | ND | 3.0 | 3 rd Migration:10, 3 rd <2 nd <1 st |
| Olive oil | 70°C for 2 hours | ND | ND | ND | 3.0 | 3 rd Migration:10, 3 rd <2 nd <1 st |

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-2: 2022, BS EN 1186-3: 2022
2. "mg/dm²" = 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.

| Food Simulant | Test Condition | Result (mg/kg) | LOQ(mg/kg) | Limit (mg/kg) |
|----------------|------------------|----------------|------------|---------------|
| | | No.2 | | |
| 3% Acetic Acid | 40°C for 2 hours | ND | 20 | 60 |
| 10% Ethanol | 40°C for 2 hours | ND | 20 | 60 |
| Olive oil | 40°C for 2 hours | ND | 20 | 60 |

Note:

1. Test method: With reference to EN 1186-1: 2002, EN 1186-2: 2022, EN 1186-3: 2022
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. "°C" = Celsius degree
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from Council of Europe Resolution AP(2004)5 and French Arrêté du 25 novembre 1992 for Silicone Elastomers.



Report No.: WTF24F04086645A1X1T

2. Specific Migration of heavy metal

| Test Items | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) | |
|-----------------|---------------------------|---------------------------|---------------------------|-------------|--|--------------|
| | No.1 | | | | | |
| | 1 st Migration | 2 nd Migration | 3 rd Migration | | | |
| Nickel (Ni) | ND | ND | ND | 0.01 | 3 rd Migration:0.02, 3 rd <2 nd <1 st | |
| Aluminium (Al) | ND | ND | ND | 0.1 | 3 rd Migration:1 3 rd <2 nd <1 st | |
| Barium (Ba) | ND | ND | ND | 0.1 | 3 rd Migration:1 3 rd <2 nd <1 st | |
| Cobalt (Co) | ND | ND | ND | 0.01 | 3 rd Migration:0.05 3 rd <2 nd <1 st | |
| Copper (Cu) | ND | ND | ND | 0.1 | 3 rd Migration:5 3 rd <2 nd <1 st | |
| Iron (Fe) | ND | ND | ND | 0.1 | 3 rd Migration:48 3 rd <2 nd <1 st | |
| Lithium (Li) | ND | ND | ND | 0.01 | 3 rd Migration:0.6 3 rd <2 nd <1 st | |
| Manganese (Mn) | ND | ND | ND | 0.01 | 3 rd Migration:0.6 3 rd <2 nd <1 st | |
| Zinc (Zn) | ND | ND | ND | 0.1 | 3 rd Migration:5 3 rd <2 nd <1 st | |
| Antimony (Sb) | ND | ND | ND | 0.01 | 3 rd Migration:0.04 3 rd <2 nd <1 st | |
| 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 | 3 rd Migration:0.05 3 rd <2 nd <1 st | Sum< 0.05 |
| Gadolinium (Gd) | ND | ND | ND | 0.02 | 3 rd Migration:0.05 3 rd <2 nd <1 st | |
| Lanthanum (La) | ND | ND | ND | 0.02 | 3 rd Migration:0.05 3 rd <2 nd <1 st | |
| Terbium (Tb) | ND | ND | ND | 0.02 | 3 rd Migration:0.05 3 rd <2 nd <1 st | |



Report No.: WTF24F04086645A1X1T

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 | | | | |
| | 1 st Migration | 2 nd Migration | 3 rd 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.



Report No.: WTF24F04086645A1X1T

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

| Test Items | CAS No. | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|---|----------|------------------------------|------------------------------|------------------------------|----------------|------------------|
| | | No.1 | | | | |
| | | 1 st Migration | 2 nd Migration | 3 rd 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-Toluyldiamine | 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.



Report No.: WTF24F04086645A1X1T

5. Bisphenol A Content*

| Test Item | Result (mg/kg) | | LOQ (mg/kg) | Limit (mg/kg) |
|-------------|----------------|------|-------------|--------------------------|
| | No.1 | No.2 | | |
| Bisphenol A | ND | ND | 0.1 | Not Detected (<0.1mg/kg) |

Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by GC-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. Peroxide Value Test*

| Test Item | Result | Limit |
|----------------|--------|--------|
| | No.2 | |
| Peroxide Value | Absent | Absent |

Note:

1. Test method: With reference to French pharmacopoeia Xth edition.
2. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.
3. The testing item marked with "*" does not been accredited by CNAS.

7. Volatile Organic Compounds

| Test Item | Test Condition | Result (%) | LOQ (%) | Limit (%) |
|----------------------------|-------------------|------------|---------|-----------|
| | | No.2 | | |
| Volatile Organic compounds | 200°C for 4 hours | 0.12 | 0.05 | 0.5 |

Note:

1. Test method: With reference to French Arrêté du 25 novembre 1992 Annex III for silicone Elastomers.
2. "%" = percentage by weight
3. LOQ = Limit of quantitation
4. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.



Report No.: WTF24F04086645A1X1T

8. Specific Migration of Organotin (as Tin)

| Food Simulant | Test Condition | Result (mg/kg) | | |
|----------------|------------------|----------------|-------------|---------------|
| | | No.2 | LOQ (mg/kg) | Limit (mg/kg) |
| 3% acetic acid | 40°C for 2 hours | ND | 0.01 | 0.1 |

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-MS.
2. "mg/kg" = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected, less than LOQ
5. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.

9. Specific Migration of Bisphenol A

| Test Item | Result (mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|--------------------------|---------------------------|---------------------------|---------------------------|-------------|--|
| | No.2 | | | | |
| | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| Migration of Bisphenol A | ND | ND | ND | 0.01 | 3 rd Migration: 0.05 3 rd < 2 nd < 1 st |

Note:

1. Test Method: With reference to CEN/TS 13130-13-2005, sample preparation in 3% acetic acid at 40°C for 2 hours.
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 regulation (EU) No 10/2011 with its amendments (EU) 2018/213 and (EU) 2020/1245.



Report No.: WTF24F04086645A1X1T


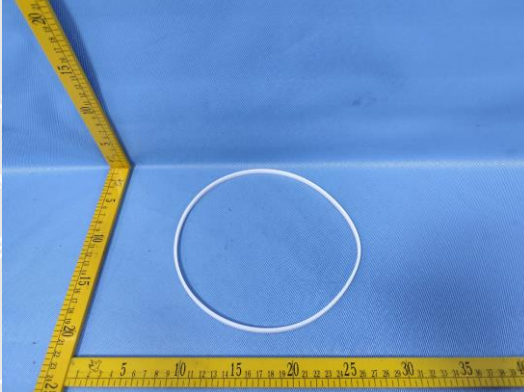
Sample Photo:





Report No.: WTF24F04086645A1X1T

Photograph of parts tested:

| No. | Photo of testing part | Parts Description | Client Claimed Material |
|-----|--|-----------------------|--|
| 1 |  | Transparent plastic | PP Sample received at 2024-04-17 |
| 2 |  | White silicone rubber | Silicone rubber Sample received at 2024-05-16 |

Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
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===== End of Report =====