
Test Report

Report No. : AGC05443220436-001

SAMPLE NAME : Stainless steel lunch box
MODEL NAME : MO6671
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 07, 2022

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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 2/6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Stainless steel lunch box
Model : MO6671
Country of origin : CHINA
Country of destination : EUROPE
Vendor code : 104438
Sample Received Date : Apr.20, 2022
Testing Period : Apr.20, 2022 to May 07, 2022

Approved by: Reed

Qinlianzhi, Reed

Laboratory Supervisor

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

| Report Version | Issued Date | Valid Version | Notes |
|----------------|--------------|---------------|-----------------|
| / | May 07, 2022 | Valid | Initial release |

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| Test Requested: | Conclusion |
|---|----------------------|
| 1. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 4. As specified by client, to test sample with reference to food for compliance with Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. for metal: - Extractable heavy metal | Pass |
| 5. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone: - Overall Migration (3% Acetic acid, 50% ethanol) - Specific migration of Bisphenol A(BPA) - Bisphenol A(BPA) content | Pass Pass Pass |
| 6. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442. -Peroxide value -Volatile Organic Matter -Specific Migration of Organotin (measured as Tin) | Pass Pass Pass |
| 7. As specified by client, to determined for mechanical dishwashing safe test. | / |

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Test Result:
1. Test Result of Phthalates Content

| Test Item | Test Method/ Instrument | MDL | Limit |
|--|-------------------------|--------|-------------------------|
| Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5) | EN 14372:2004/ GC-MS | 0.010% | Single<0.1% Sum<0.1% |
| Dibutyl phthalate (DBP) (CAS No.: 84-74-2) | | 0.010% | |
| Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7) | | 0.010% | |
| Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7) | | 0.010% | Sum<0.1% |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) | | 0.010% | |
| Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0;68515-48-0) | | 0.010% | |
| Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1) | | 0.010% | |

| Test point | Test result (%) | | | | | | | | | Conclusion |
|------------|-----------------|------|------|------|------------------------|------|------|------|---------------------|------------|
| | DIBP | DBP | BBP | DEHP | Sum(DIBP+DBP+BBP+DEHP) | DNOP | DINP | DIDP | Sum(DNOP+DINP+DIDP) | |
| 1-2 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | Conformity |

2. Test Result of Cadmium(Cd)Content

| | |
|-------------------------|----------------------------------|
| Test Item | Cadmium(Cd) (CAS No.: 7440-43-9) |
| Limit(mg/kg) | <100 |
| MDL(mg/kg) | 10 |
| Test Method/ Instrument | IEC 62321-5:2013/ ICP-OES |

| Test point | Test result (mg/kg) | Conclusion |
|------------|---------------------|------------|
| | Cadmium(Cd) | |
| 1-2 | N.D. | Conformity |

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3. Test Result of Lead(Pb)Content

| | |
|--------------------------------|-------------------------------|
| Test Item | Lead(Pb) (CAS No.: 7439-92-1) |
| Limit(mg/kg) | <500 |
| MDL(mg/kg) | 10 |
| Test Method/ Instrument | IEC 62321-5:2013/ ICP-OES |

| Test point | Test result (mg/kg) | Conclusion |
|-------------------|----------------------------|-------------------|
| | Lead(Pb) | |
| 1-1 | N.D. | Conformity |
| 1-2 | N.D. | Conformity |
| 1-3* | N.D. | Conformity |

Note:

mg/kg =milligram per kilogram
MDL = Method Detection Limit

N.D.=Not Detected(less than method detection limit)
%= percentage

Remark:

- *=As specified by client, the submitted samples were mixed to test.

4. Test result of Extractable heavy metal

Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) | Limit |
|-------------------|---|--------|---|--------|
| | | | 1 st + 2 nd extractives | |
| | | | 1-1 | |
| Barium (Ba) | 0.5% Citric acid / 70°C, 2h ICP-OES | 0.1 | N.D. | 8.4 |
| Copper (Cu) | | 0.1 | N.D. | 28 |
| Iron (Fe) | | 0.1 | 1.141 | 280 |
| Tin (Sn) | | 0.1 | N.D. | 700 |
| Chromium (Cr) | | 0.01 | 0.027 | 1.75 |
| Manganese (Mn) | | 0.1 | N.D. | 12.6 |
| Zinc (Zn) | | 0.1 | N.D. | 35 |
| Aluminum (Al) | | 0.1 | N.D. | 35 |
| Lithium (Li) | | 0.01 | N.D. | 0.336 |
| Beryllium (Be) | | 0.005 | N.D. | 0.07 |
| Vanadium (V) | | 0.005 | N.D. | 0.07 |
| Nickel (Ni) | | 0.01 | 0.026 | 0.98 |
| Cobalt (Co) | | 0.01 | N.D. | 0.14 |
| Arsenic (As) | | 0.002 | N.D. | 0.014 |
| Molybdenum (Mo) | | 0.01 | N.D. | 0.84 |
| Silver (Ag) | | 0.01 | N.D. | 0.56 |
| Cadmium (Cd) | | 0.002 | N.D. | 0.035 |
| Antimony (Sb) | | 0.01 | N.D. | 0.28 |
| Mercury (Hg) | | 0.002 | N.D. | 0.021 |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0007 |
| Lead (Pb) | 0.01 | N.D. | 0.07 | |
| Conclusion | | / | Conformity | / |

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Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) | Limit |
|-------------------|---|--------|-----------------------------|--------|
| | | | 3 rd extractives | |
| | | | 1-1 | |
| Barium (Ba) | 0.5% Citric acid / 70°C, 2h ICP-OES | 0.1 | N.D. | 1.2 |
| Copper (Cu) | | 0.1 | N.D. | 4 |
| Iron (Fe) | | 0.1 | N.D. | 40 |
| Tin (Sn) | | 0.1 | N.D. | 100 |
| Chromium (Cr) | | 0.01 | N.D. | 0.25 |
| Manganese (Mn) | | 0.1 | N.D. | 1.8 |
| Zinc (Zn) | | 0.1 | N.D. | 5 |
| Aluminum (Al) | | 0.1 | N.D. | 5 |
| Lithium (Li) | | 0.01 | N.D. | 0.048 |
| Beryllium (Be) | | 0.005 | N.D. | 0.01 |
| Vanadium (V) | | 0.005 | N.D. | 0.01 |
| Nickel (Ni) | | 0.01 | N.D. | 0.14 |
| Cobalt (Co) | | 0.01 | N.D. | 0.02 |
| Arsenic (As) | | 0.002 | N.D. | 0.002 |
| Molybdenum (Mo) | | 0.01 | N.D. | 0.12 |
| Silver (Ag) | | 0.01 | N.D. | 0.08 |
| Cadmium (Cd) | | 0.002 | N.D. | 0.005 |
| Antimony (Sb) | | 0.01 | N.D. | 0.04 |
| Mercury (Hg) | | 0.002 | N.D. | 0.003 |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0001 |
| Lead (Pb) | 0.01 | N.D. | 0.01 | |
| Conclusion | | / | Conformity | / |

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)

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5.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

| Test Solution | Test condition | MDL | Test Result(s) | Limit |
|-------------------|----------------|-----|-------------------|-------|
| | | | 1-2 | |
| 3% Acetic acid | 70°C, 2h | 5 | N.D. | 10 |
| 50% Ethanol | | 5 | N.D. | 10 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

5.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) | Limit |
|--|--|------|-------------------|-------|
| | | | 1-2 | |
| Specific migration of Bisphenol A(BPA) | 3% Acetic acid 70°C, 2h / LC-MS-MS | 0.02 | N.D. | 0.05 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

5.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | Limit |
|--------------------------|--|-----|-------------------|--------|
| | | | 1-2 | |
| Bisphenol A(BPA) content | EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS | 0.1 | N.D. | Absent |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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6.1 Test Result(s) of Peroxide value

Unit: %

| Test Item | MDL | Result(s) | Limit |
|-------------------|-----|-------------------|--------|
| | | 1-2 | |
| Peroxide value | 0.2 | Absent | Absent |
| Conclusion | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

6.2 Test result of Volatile Organic Matter

Unit: %,w/w

| Test item(s) | Test Condition | MDL | Result(s) | Limit |
|-------------------------|----------------|-----|-------------------|-------|
| | | | 1-2 | |
| Volatile Organic Matter | 200°C, 4h | 0.1 | 0.29 | 0.5 |
| Conclusion | | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)
-0.1%,w/w =1000mg/kg

6.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

| Test Item(s) | Test condition/ Equipment | MDL | Test Result(s) | Limit |
|---|---|------|-------------------|-------|
| | | | 1-2 | |
| Specific Migration of Organotin (measured as Tin) | 3% Acetic acid 70°C, 2h / ICP-OES | 0.01 | N.D. | 0.1 |
| Conclusion | / | / | Conformity | / |

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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7. Test Result of mechanical dishwashing safe test:

Sample: Stainless steel lunch box

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

For all tested metal articles:

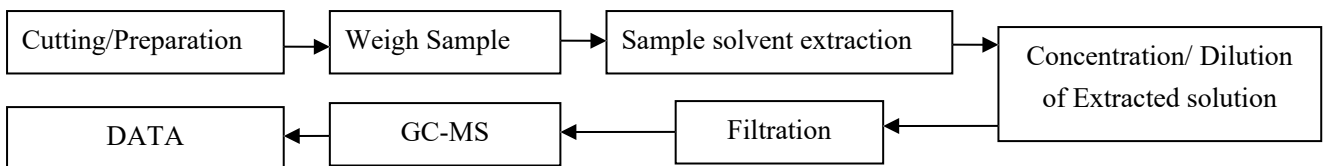
- 1) No visible change of color, gloss and clouding was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

Test Point Description

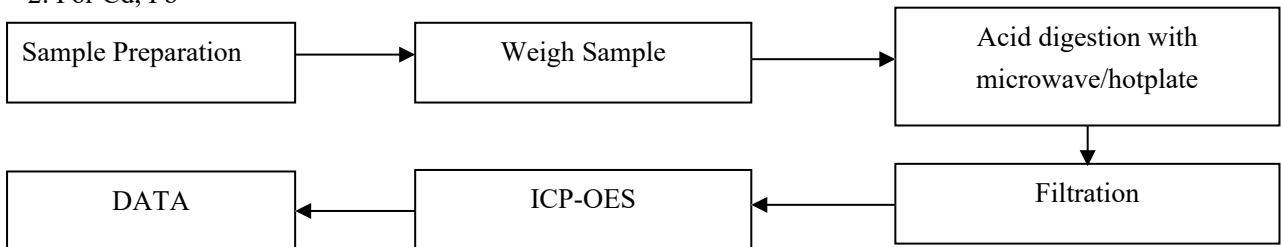
| Test point | Test point description |
|------------|--|
| 1 | Stainless steel lunch box |
| 1-1 | Stainless steel box |
| 1-2 | Gray silicone rubber ring |
| 1-3 | Stainless steel buckle+Stainless steel snap fastener |

Test Flow Chart

1. For Phthalates



2. For Cd, Pb



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The photo of the sample



AGC05443220436-001

AGC authenticate the photo only on original report

*** End of Report ***

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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