
Test Report

Report No. : AGC05443220429-001

SAMPLE NAME : Stainless steel lunch box
MODEL NAME : MO6638
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 10, 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 : 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 : MO6638
Vendor code : 104438
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Apr.13, 2022
Testing Period : Apr.13, 2022 to May 10, 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 10, 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, the following items are determined in the submitted sample with reference to the Regulation 1935/2004/EC Regulation EU (No) 10/2011& (EU)2018/213 and Council of Europe Resolution AP(2004)5:	
- Overall Migration	Pass
- Specific migration of BPA	Pass
- BPA content	Pass
5. As specified by client, the following items are determined in the submitted sample with reference to DM-4B-COM-003-v01 and France Act 2012-1442.	
- Volatile Organic Matter	Pass
- Peroxide value	Pass
- Specific Migration of Organotin (measured as Tin)	Pass
6. As specified by client, to determine Specific migration of heavy metal from metal and alloys used in contact with food for compliance with Regulation (EC) No 1935/2004 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res (2013)9.	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)	
1-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
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)	
1-1	N.D.	Conformity
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
1-4	N.D.	Conformity
1-5	N.D.	Conformity

4.1 Test Result of Overall Migration

Test point	Test Result		Conclusion
	Overall migration/ (mg/dm ²)		
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-2	N.D.	N.D.	Conformity
Limit	10	10	/
MDL	5	5	/

4.2 Test Result(s) of Specific migration of Bisphenol A

Test Item	Test Condition / Equipment	MDL	Test result	Limit (Client's Requirement)
			1-2	
Specific migration of Bisphenol A(BPA)/ (mg/kg)	70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Conformity	/

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

Test Item	Test Method/ Equipment	MDL	Test result	Limit (Client's Requirement)
			1-2	
Bisphenol A(BPA)/ (mg/kg)	EPA 3540C:1996& EPA 8321B:2007 / LC-MS-MS	1	N.D.	Absent
Conclusion	/	/	Conformity	/

5.1 Test result of Volatile Organic Matter

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-2	
Volatile Organic Matter/(%)	200°C, 4h	0.1	0.25	0.5
Conclusion		/	Conformity	/

5.2 Test Result(s) of Peroxide value

Test Item	MDL	Result(s)	Limit
		1-2	
Peroxide value/ (%)	0.2	N.D.	Absent
Conclusion	/	Conformity	/

5.3 Test Result(s) of Specific Migration of Organotin (measured as Tin)

Test item(s)	Test Condition / Equipment	MDL	Result(s)	Limit
			1-2	
Specific Migration of Organotin (measured as Tin) / (mg/kg)	3% Acetic acid, 70°C, 2h, ICP-OES	0.02	N.D.	0.1
Conclusion	/	/	Conformity	/

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6. Test Result(s) of Specific migration of heavy metal:

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 st + 2 nd extractives	
			1-3	
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	0.583	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (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	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	0.014	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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Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 rd extractives	
			1-3	
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	0.266	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
Aluminium (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	/

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7. Test Result of mechanical dishwashing safe test:

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 plastic and 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.

Note:

mg/kg = milligram per kilogram

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

MDL = Method Detection Limit

mg/dm² = milligrams per square decimeter**Remark:**

- As specified by client, only test the designated sample.

Test Point Description

Test point	Test point description
1-1	Black coating
1-2	Gray silicone rubber ring
1-3	Metal lunch box
1-4	Metal buckle
1-5	Metal snap fastener

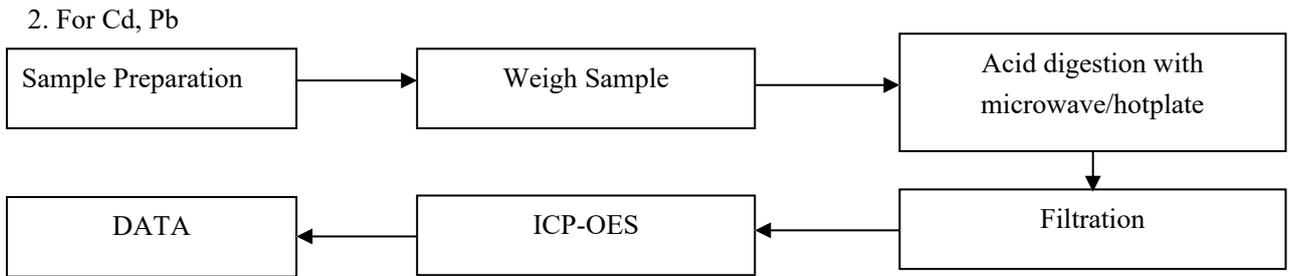
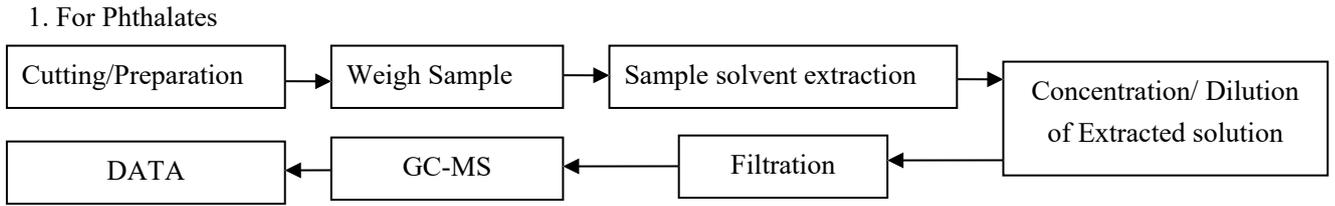
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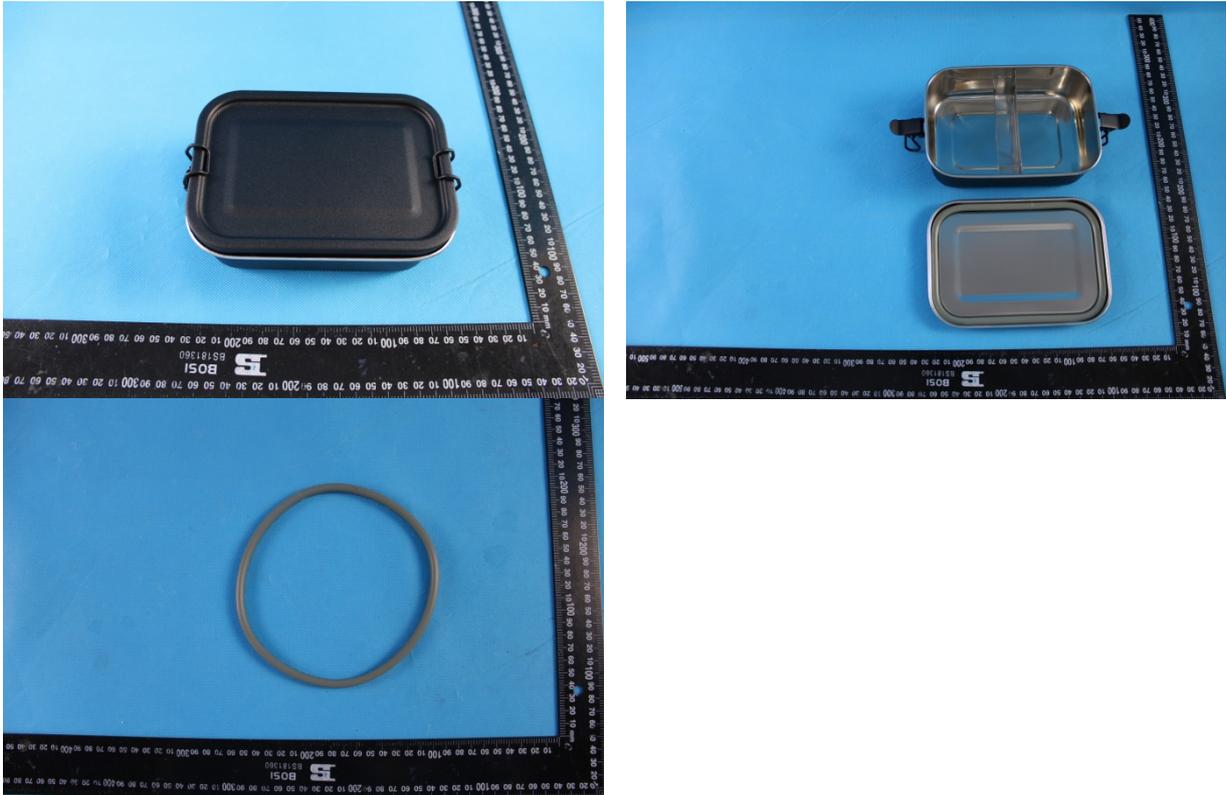
Test Flow Chart



Test result of Volatile Organic Matter on specimen No.1-2 was resubmitted sample on Apr.28, 2022.

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The photo of the sample



AGC05443220429-001

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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