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# Test Report

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Report No. : AGC05443220435-001

**SAMPLE NAME** : PP lunch box with cutlery  
**MODEL NAME** : MO6646  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : May 16, 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 : PP lunch box with cutlery  
Model : MO6646  
Vendor code : 106613  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Apr.20, 2022  
Testing Period : Apr.20, 2022 to May 16, 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 16, 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.	<b>Pass</b>
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.	<b>Pass</b>
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.	<b>Pass</b>
4. As specified by client, to determined for mechanical dishwashing safe test.	/
5. As specified by client, to determined for microwave test. As specified by client, the following items are determined in the submitted sample	/
6. with reference to the Regulation 1935/2004/EC, Regulation (EU) 2018/213& Regulation (EU) 2020/1245 and Council of Europe Resolution AP(2004)5:	
- Overall Migration	<b>Pass</b>
- Bisphenol A(BPA) content	<b>Pass</b>
- Specific migration of Bisphenol A(BPA)	<b>Pass</b>
7. As specified by client, to test sample with reference to DM-4B-COM-003-v01, Regulation 1935/2004/EC, Regulation (EU) No 10/2011 &(EU)2020/1245 for:	
-Volatile Organic Matter	<b>Pass</b>
- Peroxide value	<b>Pass</b>
- Specific Migration of Organotin (measured as Tin)	<b>Pass</b>
As specified by client, the following items are determined in the submitted sample	
8. with reference to the Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and Regulation (EU) 2020/1245:	
- Overall Migration	<b>Pass</b>
- Bisphenol A(BPA) content	<b>Pass</b>
- Specific migration of Bisphenol A(BPA)	<b>Pass</b>
- Specific migration of Primary Aromatic Amine	<b>Pass</b>
- Specific migration of Heavy metals	<b>Pass</b>

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**Test Result(s):**
**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 <sup>△</sup>	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
1-3 <sup>△</sup>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-4	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**

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

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1 <sup>△</sup>	N.D.	Conformity
1-2	N.D.	Conformity
1-3 <sup>△</sup>	N.D.	Conformity
1-4	N.D.	Conformity

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### 3. Test Result of Lead(Pb) Content

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

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1 <sup>△</sup>	N.D.	Conformity
1-2	N.D.	Conformity
1-3 <sup>△</sup>	N.D.	Conformity
1-4	N.D.	Conformity

### 4. 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: 2 (Two) pc(s).

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

For all tested plastic 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.

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**5. Test Result of microwave test:****Sample: Black lunch box**

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

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

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

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1(Lunch box)	/	75.9°C
2(Fork)	26.2°C	61.7°C
3(Spoon)	26.5°C	57.8°C

For all tested plastic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, deformation was found on the tested samples after test.
- 3) No melting, charring was found on the tested samples after wash.
- 4) The tested samples still suitability to re-use after test.

**Sample: White lunch box**

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

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

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

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1(Lunch box)	/	72.5°C
2(Fork)	25.9°C	56.8°C
3(Spoon)	27.5°C	54.3°C

For all tested plastic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, deformation was found on the tested samples after test.
- 3) No melting, charring was found on the tested samples after wash.
- 4) The tested samples still suitability to re-use after test.

**6.1 Test Result(s) of Overall Migration**

Test point	Test Result		Conclusion
	Overall migration/ (mg/dm <sup>2</sup> )		
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-4	N.D.	N.D.	<b>Conformity</b>
<b>Limit</b>	10	10	/
<b>MDL</b>	5	5	/

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**6.2 Test Result(s) of Bisphenol A(BPA) content**

<b>Test Item</b>	Bisphenol A (BPA)
<b>Limit (Client's Requirement) (mg/kg)</b>	Absent
<b>MDL(mg/kg)</b>	1
<b>Test Method/ Instrument</b>	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS

Test point	Test Result (mg/kg)	Conclusion
	Bisphenol A (BPA)	
1-4	N.D.	Conformity

**6.3 Test Result(s) of Specific migration of Bisphenol A(BPA)**

Test point	Test Result	Conclusion
	Specific migration of Bisphenol A(BPA)/ (mg/kg)	
	3% Acetic acid, 70°C,2h	
1-4	N.D.	Conformity
<b>Limit (Client's Requirement)</b>	0.05	/
<b>MDL</b>	0.02	/

**7.1 Test Result(s) of Volatile Organic Matter**

Test method: DGCCRF-2004-64

Unit: %

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-4	
Volatile Organic Matter	70°C, 2h	0.1	N.D.	0.5
<b>Conclusion</b>		/	<b>Conformity</b>	/

**7.2 Test Result(s) of Peroxide value**

Unit: %

Test Item	MDL	Result(s)	Limit
		1-4	
Peroxide value	0.2	N.D.	Absent
<b>Conclusion</b>	/	<b>Conformity</b>	/

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

Test point	Test Result		Conclusion
	Specific Migration of Organotin (measured as Tin)/ (mg/kg)		
	3% Acetic acid, 70°C,2h		
1-4	N.D.		Conformity
Limit	0.1		/
MDL	0.01		/

**8.1 Test Result(s) of Overall Migration**

Test point		Test Result		Conclusion
		Overall migration/ (mg/dm <sup>2</sup> )		
		3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-5	1 <sup>st</sup> migration	N.D.	N.D.	Conformity
	2 <sup>nd</sup> migration	N.D.	N.D.	
	3 <sup>rd</sup> migration	N.D.	N.D.	
1-6	1 <sup>st</sup> migration	N.D.	5.6	Conformity
	2 <sup>nd</sup> migration	N.D.	N.D.	
	3 <sup>rd</sup> migration	N.D.	N.D.	
Limit		10	10	/
MDL		5	5	/

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**8.2 Test Result(s) of Bisphenol A(BPA) content**

<b>Test Item</b>	Bisphenol A (BPA)
<b>Limit (mg/kg)</b>	Absent
<b>MDL(mg/kg)</b>	1
<b>Test Method/ Instrument</b>	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS

<b>Test point</b>	<b>Test Result (mg/kg)</b>	<b>Conclusion</b>
	<b>Bisphenol A (BPA)</b>	
1-5	N.D.	<b>Conformity</b>
1-6	N.D.	<b>Conformity</b>

**8.3 Test Result(s) of Specific migration of Bisphenol A(BPA)**

<b>Test point</b>		<b>Test Result</b>	<b>Conclusion</b>
		Specific migration of Bisphenol A(BPA)/ (mg/kg)	
		3% Acetic acid, 70°C,2h	
1-5	1 <sup>st</sup> migration	N.D.	<b>Conformity</b>
	2 <sup>nd</sup> migration	N.D.	
	3 <sup>rd</sup> migration	N.D.	
1-6	1 <sup>st</sup> migration	N.D.	<b>Conformity</b>
	2 <sup>nd</sup> migration	N.D.	
	3 <sup>rd</sup> migration	N.D.	
<b>Limit</b>		0.05	/
<b>MDL</b>		0.02	/

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**8.4 Test Result(s) Specific migration of Primary Aromatic Amine**

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)
4-Aminobiphenyl	0.002	N.D.
Benzidine	0.002	N.D.
4-Chloro-o-Toluidine	0.002	N.D.
2-Naphthylamine	0.002	N.D.
4-amino-2',3-dimethylazobenzene	0.002	N.D.
5-Nitro-o-toluidine	0.002	N.D.
4-Chloroaniline	0.002	N.D.
4-Methoxy-m-phenylenediamine	0.002	N.D.
4,4'-Diaminodiphenylmethane	0.002	N.D.
3,3'-Dichlorobenzidine	0.002	N.D.
3,3'-Dimethoxybenzidine	0.002	N.D.
3,3'-Dimethylbenzidine	0.002	N.D.
4,4'-Methylenedi-o-toluidine	0.002	N.D.
6-methoxy-m-toluidine	0.002	N.D.
4,4'-methylenebis[2-chloroaniline]	0.002	N.D.
4,4'-Oxydianiline	0.002	N.D.
4,4'-Thiodianiline	0.002	N.D.
2-Aminotoluene	0.002	N.D.
4-methyl-m-phenylenediamine	0.002	N.D.
2,4,5-Trimethylaniline	0.002	N.D.
2-Methoxyaniline	0.002	N.D.
4-Aminoazobenzene	0.002	N.D.
1,3 phenylenediamine	0.002	N.D.
Total of other primary aromatic amines	0.01	0.01

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Test Item(s)	Test Result (mg/kg)	
	1-5	1-6
	3% Acetic acid 70°C, 2h	3% Acetic acid 70°C, 2h
4-Aminobiphenyl	N.D.	N.D.
Benzidine	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.
3,3'-Dimethylbenzidine	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.
1,3 phenylenediamine	N.D.	N.D.
Total of other primary aromatic amines	N.D.	N.D.
<b>Conclusion</b>	<b>Conformity</b>	<b>Conformity</b>

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**8.5 Test Result(s) Specific migration of Heavy metals**

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-5			
			1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	
Barium (Ba)	3% Acetic acid/ 40°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
<b>Conclusion</b>		/	<b>Conformity</b>			/
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.026	N.D.	N.D.	/
Magnesium (Mg)	0.01	N.D.	N.D.	N.D.	/	
Potassium (K)	0.01	0.068	N.D.	N.D.	/	
Sodium (Na)	0.01	0.069	N.D.	N.D.	/	

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Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-6			
			1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	
Barium (Ba)	3% Acetic acid/ 40°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
<b>Conclusion</b>		/	<b>Conformity</b>			/
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.317	N.D.	N.D.	/
Magnesium (Mg)		0.01	N.D.	N.D.	N.D.	/
Potassium (K)		0.01	0.043	N.D.	N.D.	/
Sodium (Na)		0.01	0.044	N.D.	N.D.	/

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**Note:**

mg/kg = milligram per kilogram

mg/dm<sup>2</sup>= milligrams per decimeter squared

% = percentage

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

MDL = Method Detection Limit

**Remark:**

- As specified by client, only test the designated sample.
- Δ= As specified by client, the submitted samples were mixed to test.

**Test Point Description**

Test point	Test point description
1-1	White plastic lunch box+White plastic cutlery
1-2	Transparent plastic cover
1-3	Black plastic lunch box+Black plastic cutlery
1-4	White silicone sealing
1-5	White plastic lunch box
1-6	Black plastic lunch box

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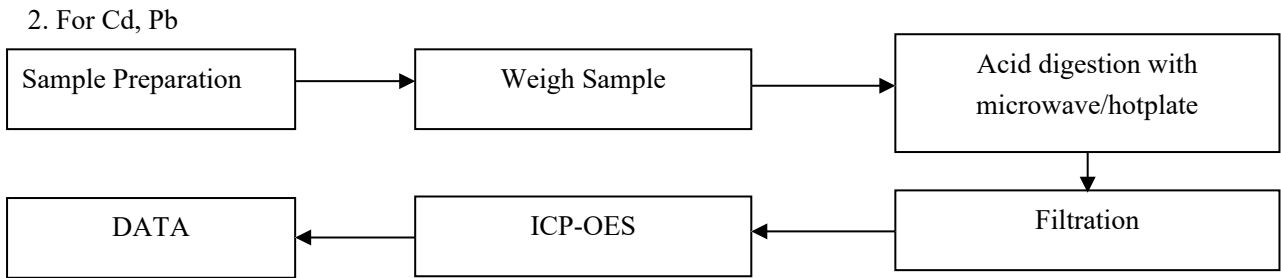
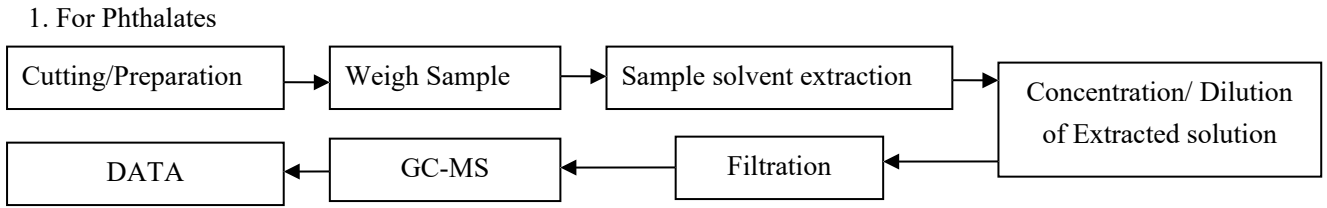
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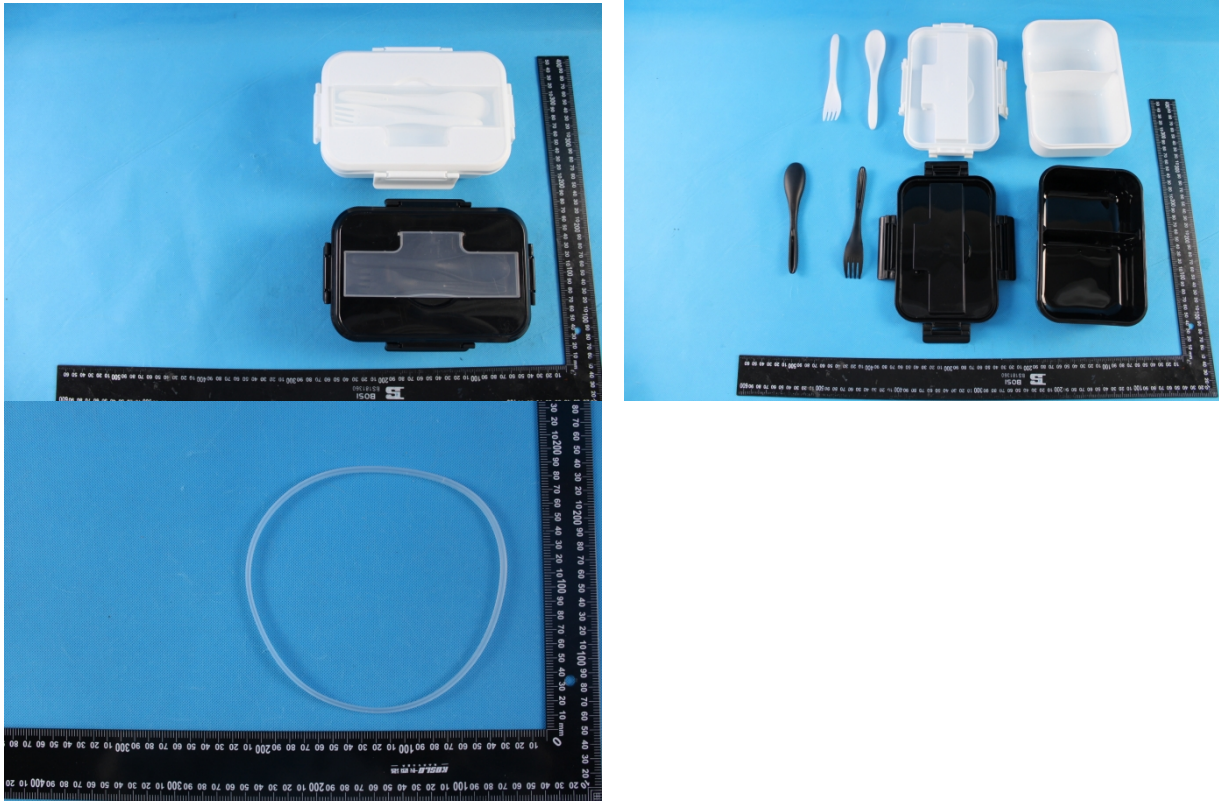
### Test Flow Chart



Test result of Volatile Organic Matter on specimen No.1-4 was resubmitted sample on May 10, 2022.

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### The photo of the sample



**AGC05443220435-001**

AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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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