

# **Test Report**

Report No. : AGC05443220529-001

**SAMPLE NAME**: PP lunch box with bamboo lid

MODEL NAME : MO6627

**APPLICANT**: MID OCEAN BRANDS B.V

**STANDARD(S)** : Please refer to the following page(s).

**DATE OF ISSUE**: Jun.08, 2022

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





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Applicant : MID OCEAN BRANDS B.V

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 : PP lunch box with bamboo lid

Model : MO6627
Vendor code : 114276
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : May 18, 2022

Testing Period : May 18, 2022 to Jun.08, 2022

Approved by: Jessie liang

Liangdan, Jessie.Liang

**Technical Director** 



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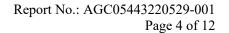
#### Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Jun.08, 2022	Valid	Initial release



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Tes	st Requested:	Conclusion
1.	As specified by client, to determine the Formaldehyde Release in the submitted sample	Pass
2.	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
3.	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
4.	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
5.	As specified by client, to determine the Pentachlorophenol (PCP) Content with reference to LFGB §64 BVL B 82.02 Part 8	Pass
6.	As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation (EU) No 10/2011, Regulation (EU) 2020/1245 and Regulation (EU) 2018/213:	
	-Specific migration of Formaldehyde	Pass
	-Overall migration	Pass
	-Bisphenol A(BPA) content	Pass
	-Specific migration of Primary aromatic amines	Pass
	-Specific migration of Heavy metals	Pass





#### **Test Result:**

#### 1. Test Result of Formaldehyde Release

Test Item(s)	Formaldehyde Release
Limit (Client's Requirement) (mg/kg)	80
MDL (mg/kg)	1
Test Method/ Equipment	EN 717-3:1996/ UV-Vis

Test point		Test result (mg/kg)	Conclusion	
	rest point	Formaldehyde Release	Conclusion	
	1-1	7	Conformity	

#### 2. 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

Tost noint	Test result (mg/kg)	Conclusion
Test point	Lead(Pb)	Conclusion
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-5△	N.D.	Conformity

#### 3. 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			

Tost point	Test result (mg/kg)	Canalusian	
Test point	Cadmium(Cd)	Conclusion	
1-2	N.D.	Conformity	
1-5△	N.D.	Conformity	



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#### 4. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP)		0.010%	
(CAS No.: 84-69-5)	_		_
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	Single<0.1%
Butylbenzyl phthalate (BBP)		0.010%	Sum<0.1%
(CAS No.: 85-68-7)		0.01070	
Di-(2-ethylhexyl) Phthalate (DEHP)	EN 14372:2004/ GC-MS	0.010%	
(CAS No.: 117-81-7)	EN 143/2:2004/ GC-MS	0.01070	
Di-n-octyl phthalate (DNOP)		0.010%	
(CAS No.: 117-84-0)		0.01070	
Di-isononyl phthalate (DINP)		0.010%	G -0.10/
(CAS No.: 28553-12-0; 68515-48-0)		0.01070	Sum<0.1%
Di-isodecyl phthalate(DIDP)		0.010%	
(CAS No.: 26761-40-0; 68515-49-1)		0.01070	

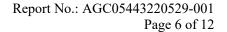
Test					Test result (	<b>%</b> )				
	DIBP	DBP BBP DEHP Sum(DI +BBP-		Sum(DIBP+DBP +BBP+DEHP)	DNOP	NOP DINP DIDP		Sum(DNOP+ DINP+DIDP)	Conclusion	
1-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-5△	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

#### 5. Test Result of Pentachlorophenol (PCP) content

Test Item	Test Method/	Limit	MDL	Test result
Test Item	Equipment	Lillit	MIDL	1-1
Pentachlorophenol (PCP)/ (mg/kg)	ENISO 15320-2011/ GC-MS	0.15	0.05	N.D.
Conclusion	/	/	/	Conformity

#### 6.1 Test Result of Specific migration of Formaldehyde

Test point		Test Result	
		Specific migration of Formaldehyde/ (mg/kg)	Conclusion
		3% Acetic acid, 70°C,2h	
	1 <sup>st</sup> migration	N.D.	
1-1	2 <sup>nd</sup> migration	N.D.	Conformity
	3 <sup>rd</sup> migration	N.D.	
I	Limit	15	/
MDL		5	/





6.2 Test Result of Overall migration

		Test	result		
Tes	st point	Overall migra	Conclusion		
-		3% Acetic acid, 50% Ethanol, 70°C,2h 70°C,2h			
	1 <sup>st</sup> migration	7.9	6.8		
1-3	2 <sup>nd</sup> migration	N.D.	N.D.	Conformity	
	3 <sup>rd</sup> migration	N.D.	N.D.		
	1 <sup>st</sup> migration	N.D.	N.D.		
1-4	2 <sup>nd</sup> migration	N.D.	N.D.	Conformity	
	3 <sup>rd</sup> migration	N.D.	N.D.		
I	Limit	10	10	/	
MDL		5	5	/	

### 6.3 Test Result of Bisphenol A(BPA) content

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

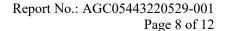
Tost naint	Test Result (mg/kg)	Conclusion	
Test point	Bisphenol A (BPA)		
1-3	N.D.	Conformity	
1-4	N.D.	Conformity	



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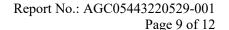
#### 6.4 Test Result of Specific migration of Primary aromatic amines

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'-Dimethybenzidine	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	





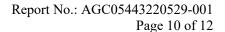
	Test Result (mg/kg)			
Test Item(s)	1-3	1-4		
	3% Acetic acid 70°C, 2h	3% Acetic acid 70°C, 2h		
4-Aminobiphenyl	N.D.	N.D.		
Benzidine	N.D.	N.D.		
4-Chloro-o-Toluidine	N.D.	N.D.		
2-Naphthylamine	N.D.	N.D.		
4-amino-2',3-dimethylazobenzene	N.D.	N.D.		
5-Nitro-o-toluidine	N.D.	N.D.		
4-Chloroaniline	N.D.	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'-Dimethybenzidine	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.		
Conclusion	Conformity	Conformity		





6.5 Test Result of Specific migration of Heavy metals

	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
Test Item(s)			1-3			
			1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	- (mg/kg)
Barium (Ba)		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)	3% Acetic acid/	0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)	70°C, 2h/ ICP-OES/ IC	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
Conclusion	1	/	Conformity			/
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	N.D.	N.D.	N.D.	/
Magnesium (Mg)		0.01	0.619	0.153	0.094	/
Potassium (K)		0.01	0.056	N.D.	N.D.	/
Sodium (Na)		0.01	0.050	N.D.	N.D.	/





	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
Test Item(s)			1-4			
	_4	(8,8)	1 <sup>st</sup>	2 <sup>nd</sup>	3rd	(
Barium (Ba)		0.1	migration N.D.	migration N.D.	migration 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)	3% Acetic acid/	/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)	70°C, 2h/ ICP-OES/ IC	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
Conclusion	-	/	Conformity		/	
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	N.D.	N.D.	N.D.	/
Magnesium (Mg)		0.01	1.361	0.225	0.247	/
Potassium (K)		0.01	0.079	N.D.	N.D.	/
Sodium (Na)		0.01	0.092	N.D.	N.D.	/



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#### Note:

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

MDL = Method Detection Limit N.D.=Not Detected (less than method detection limit)

#### Remark:

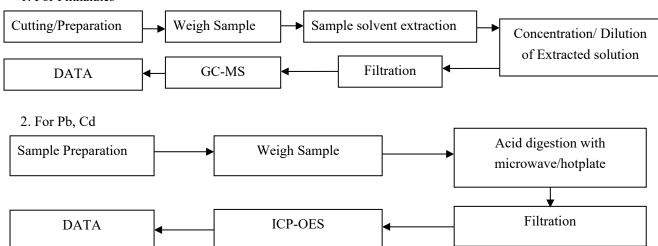
- As specified by client, only test the designated sample.
- $\triangle$ = As specified by client, the submitted samples were mixed to test.

#### **Test Point Description**

Test point	Test point description
1-1	Wooden cover
1-2	Black silicone band
1-3	White plastic
1-4	Black plastic
1-5	White plastic+ Black plastic

#### **Test Flow Chart**

#### 1. For Phthalates



Test result of Overall Migration (3% Acetic acid) on specimen No.1-3 and No.1-4 were resubmitted sample on May 30, 2022.



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# The photo of the sample





## AGC05443220529-001

AGC authenticate the photo only on original report

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



## Conditions of Issuance of Test Reports

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- 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.
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- 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.