

# TEST REPORT

**APPLICANT** : Mid Ocean Hong Kong Ltd.

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

**SAMPLE DESCRIPTION** : MO6240 Lunch box in PP with natural bamboo lid  
 MO6205 Lunch box in PP,  
 MO6254 Lunch box with knife and fork,  
 MO6244 Double wall tumbler,  
 MO6255 PP mug with spoon,  
 MO8078 Single wall tumbler in shiny white PP with silicone lid and middle ring  
 MO6275 PP Lunch box with Cutlery  
 MO6274 PP storage container

**MODEL NO.** : MO6240, MO6205, MO6254, MO6244,  
 MO6255, MO8078, MO6275, MO6274;

**SAMPLE RECEIVED DATE** : 12-Mar-2021

**SAMPLE RESUBMISSION DATE** : 23-Apr-2021

**FURTHER INFORMATION DATE** : 06-May-2021

**TURN AROUND TIME** : 12-Mar-2021 to 11-May-2021

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
Total Lead Content	Pass
Total Cadmium Content	Pass
Phthalates Content	Pass
Pentachlorophenol (PCP) Content	Pass
Specific Migration of Bisphenol-A(BPA)	Pass
Overall Migration	Pass
Specific Migration of Heavy Metal	Pass
Extractable Formaldehyde	Pass

*Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.sh@eurofins.com](mailto:info.sh@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number.*

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



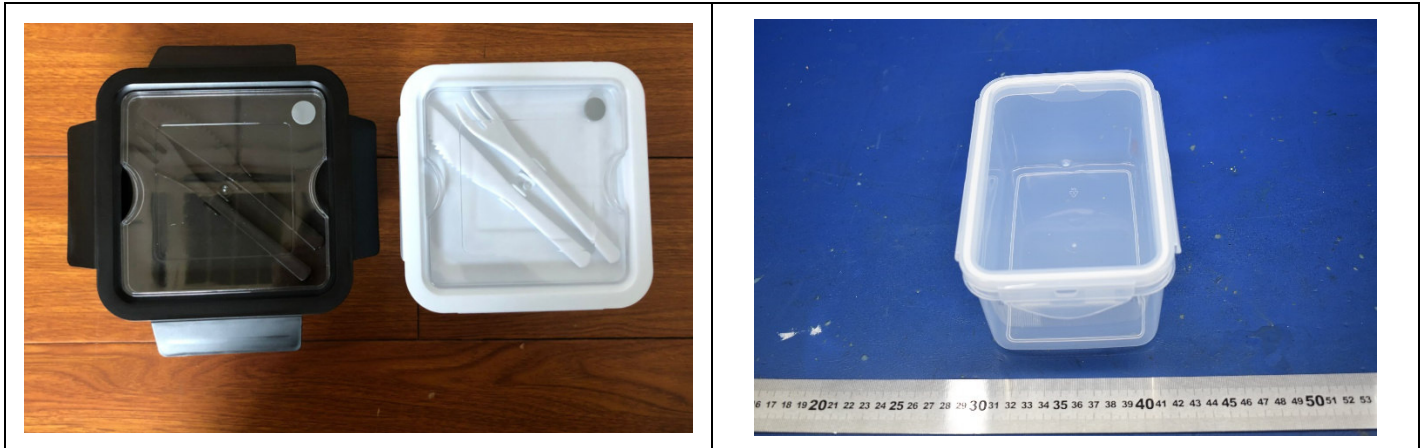
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Joyce Liu  
Lab Manager

**SAMPLE PHOTO(S)**



\*\*\*TO BE CONTINUED\*\*\*



**EFSH21030385-CG-02**

\*\*\*TO BE CONTINUED\*\*\*

## REFERENCE SAMPLE PHOTO(S)



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

## **EFSH21030385-CG-02**

\*\*\*TO BE CONTINUED\*\*\*

\*\*\*TO BE CONTINUED\*\*\*

## COMPONENT LIST

<b>Component No.</b>	<b>Component</b>
1	Natural color bamboo lid
2	Semi-transparent silicone seal ring
3	Grey silicone plug
4	Red silicone lid
5	Beige PP box
6	White PP box
7	Brown elastic band
8	Transparent PS
9	Semi-transparent PP

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
 Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				1	2+3+4	5+6	7
Total Lead	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				8	9
Total Lead	mg/kg	500	10	ND	ND

**Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
 Acid digestion/ microwave digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result			
				1	2+3+4	5+6	7
Total Cadmium	mg/kg	100	5	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				8	9
Total Cadmium	mg/kg	100	5	ND	ND

**Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result				
					2+3+4	5+6	7	8	9
Dibutyl phthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND	ND	ND
Diethylhexyl phthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	-	0.005	ND	ND	ND	ND	ND
Sum of (DEHP+DBP+BBP+DIBP)	-	%	0.1	-	ND	ND	ND	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND	ND
Diisononyl phthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND	ND
Sum of (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND	ND	ND

#### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

"-" = Not Regulated

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol (PCP) content as specified in entry 22 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: With reference to ISO 17070:2015, analysis was performed by GC-MS.  
With reference to § 64 LFGB B 82.02.8-2001, analysis was performed by GC-MS.  
With reference to EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					1
Pentachlorophenol (PCP)	87-86-5	mg/kg	1000	0.5	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Specific Migration of Bisphenol-A (BPA)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments, Commission Regulation (EU) No 2018/213, for materials and articles intended to come into contact with food and foodstuffs.

Test Method : With reference to EU 10/2011 for selection of test condition, with reference to BS EN 13130-1:2004 for sample preparation, analysis was performed by HPLC-MS.

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70°C 2hrs

Test item(s)	Max. Permissible Limit	Unit	MDL	Result				
				2	3	4	5	6
Specific migration of 2,2-bis(4-hydroxyphenyl) propane (Bisphenol A)	0.05	mg/kg	0.01	ND	ND	ND	ND	ND

Test item(s)	Max. Permissible Limit	Unit	MDL	Result	
				8	9
Specific migration of 2,2-bis(4-hydroxyphenyl) propane (Bisphenol A)	0.05	mg/kg	0.01	ND	ND

**Remark:**

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = Not detected, less than MDL
- (4) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Overall Migration

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Commission Regulation (EU) No. 10/2011 and its amendments, and BfR recommendation.

Test Method : By reference to EU 10/2011 for selection of test condition;  
 With reference to EN1186-1:2002 for test methods;  
 or EN1186-3:2002 aqueous food simulants by total immersion method;  
 or EN1186-9:2002 aqueous food simulants by article filling method;  
 or EN1186-2:2002 olive oil by total immersion method;  
 or EN1186-8:2002 olive oil by article filling method;  
 or EN1186-14:2002 substitute test

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )				
				2	3	4	5	6
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10	<3.0#	<3.0#	<3.0#	<3.0#	<3.0#
10% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10	<3.0#	<3.0#	<3.0#	<3.0#	<3.0#
95% Ethanol I (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2hrs	60°C	10	<3.0#	<3.0#	9.9#	<3.0#	<3.0#
Isooctane (Rectified Vegetable Oil Substitute)	0.5hrs	40°C	10	<3.0#	<3.0#	8.5#	<3.0#	<3.0#

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	
				8	9
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10	<3.0#	<3.0#
10% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10	<3.0#	<3.0#
95% Ethanol I (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2hrs	60°C	10	<3.0#	<3.0#
Isooctane (Rectified Vegetable Oil Substitute)	0.5hrs	40°C	10	<3.0#	<3.0#

### Remark:

- (1) mg/kg =milligram per kilogram
- (2) mg/dm<sup>2</sup> =milligram per square decimeter
- (3) Analytical tolerance of aqueous simulants is 6mg/kg or 1mg/dm<sup>2</sup>
- (4) Analytical tolerance of fatty food simulants is 20mg/kg or 3mg/dm<sup>2</sup>
- (5) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal for compliance with Commission Regulation (EU) No. 10/2011 and its amendments relating to plastic materials and articles intended to come into contact with foodstuffs.

Test Method : With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-MS.

Simulant used : 3% Acetic Acid (W/V) Aqueous Solution

Test condition : 70°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				2		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				3		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				4		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				5		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				6		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				8		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				9		
				1 <sup>st</sup> test	2 <sup>nd</sup> test	3 <sup>rd</sup> test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Ga)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

**Note:**

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Extractable formaldehyde

Test Requested : In accordance with Regulation (EC) No 1935/2004, and Commission Regulation (EU) No 10/2011 and its amendments  
For material: Wood/Bamboo Polymer Compound –Extractable formaldehyde

Test Method : Sample preparation with reference to EN 13130-1: 2004 with selection of simulant and condition, followed by analysis by UV-vis.

Simulant used : 3% Acetic Acid (W/V) Aqueous  
Test condition : 70°C 2hours

Test Items	Max. Permissible Limit	Unit	MDL	Result
				1
Extractable formaldehyde	15	mg/kg	1	6.8

**Note:**

ND = not detected, less than MDL

MDL = method detection limit

Test condition & simulant were specified by client.

\*\*\*END OF THE REPORT\*\*\*



# TEST REPORT

**Reference No.** ..... : WTF21F04039673A4F  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer** ..... : 111034  
**Sample Name** ..... : Silicone ring in tumbler / bottle  
**Model No.** ..... : MO6244,MO9357  
**Test Requested** ..... : In accordance with 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** .... : 2021-04-26 & 2021-05-20 & 2021-06-16 & 2021-07-09  
**Date of Test** ..... : 2021-04-26 to 2021-07-14  
**Date of Issue** ..... : 2021-07-15  
**Test Result** ..... : Please refer to next page (s)  
**Note** ..... : Selected test(s) as requested by applicant.

**Remarks:**

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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**Test Results:****1. Overall Migration Test**

Food Simulant	Test Condition	Result (mg/kg)	LOQ(mg/kg)	Limit (mg/kg)
		No.1		
3% Acetic Acid	100°C for 6 hours	ND	20	60
10% Ethanol	100°C for 6 hours	ND	20	60

Note:

1. Test method: With reference to EN 1186-1: 2002 and EN 1186-3: 2002
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.

**2. Peroxide Value Test**

Test Item	Result	Limit
	No.1	
Peroxide Value	Absent	Absent

Note:

1. Test method: With reference to European Pharmacopeia (2005) ANNEX X F, Clause 2.5.5, method A.
2. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.
3. Absent = Not detected

**3. Specific Migration of Organotin (as Tin)**

Test Item	Result (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Specific Migration of Organotin (as Tin)	ND	0.01	0.1

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 100°C for 6 hours, analysis was performed by ICP-OES.
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.

**4. Bisphenol A Content**

Test Item	Result (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Bisphenol A	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.

**5. Volatile Organic Compounds**

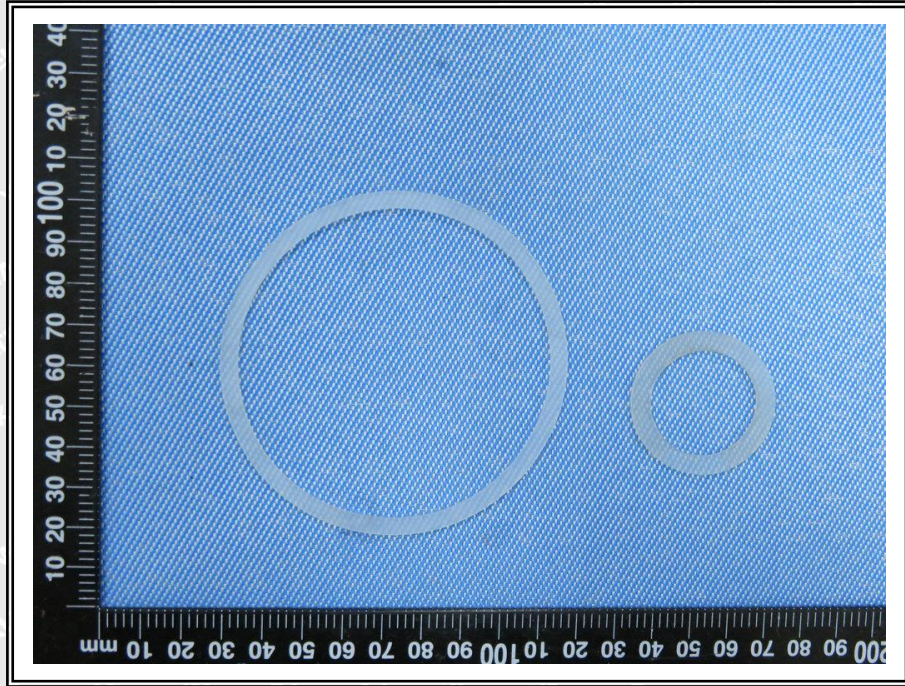
Test Item	Result (%)	LOQ (%)	Limit (%)
	No.2		
Volatile Organic compounds	0.15	0.05	0.5

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.



**Sample Photo:**

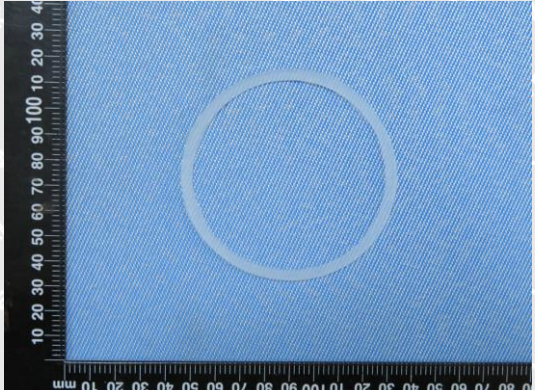


**Photograph of parts tested:**

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Transparent silicone rubber	Silicone rubber (Sample received at 2021-04-26)





No.	Photo of testing part	Parts Description	Client Claimed Material
2		Transparent silicone rubber	Silicone rubber  (Sample received at 2021-07-09)

===== End of Report =====

# WALTEK

