



# TEST REPORT

Report No.: STSGZ2305263064E

Date: 8-Jun-2023

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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

The following sample(s) and sample information was/were submitted and identified by client as:

**Sample Name:** Drinking bottle in glass with bamboo lid

**Model/Style/Item #:** MO6246

**Receiving Date:** 26-May-2023

**Test Period:** From 26-May-2023 to 6-Jun-2023

**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
3	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	<b>PASS</b>
4	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
5	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
6	Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
7	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	PASS
8	Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	In-house Method, determined by LC-MS	PASS
9	Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC	EN 1388-1:1995, determined by ICP-OES	PASS
10	Overall migration - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2022	PASS
11	Volatile Compounds Content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	PASS
12	Peroxides value - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia method	PASS
13	Organotin Content for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	EN 13130-1:2004, determined by ICP-OES	PASS
14	Bisphenol A Contents - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	In-house Method, determined by LC-MS	PASS
15	As specified by client, determination of the released formaldehyde content in submitted sample	EN 717-3:1996, analyzed by Spectrophotometer(UV)	PASS
16	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
17	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
18	Specific migration of Bisphenol A (BPA) - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
19	Specific migration of Bisphenol A (BPA) - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
20	Specific migration of Bisphenol A (BPA) - French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS

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## Result:

### 1. Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		1	2	3		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	500	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		1	2	3		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Result(s)			Limit (%)	RL (%)
			1	2	3		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005

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4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

#### 4. Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 EN 1186-1:2002 & EN 1186-3:2022

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 5. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2022

Test specification	Material		Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )	
	2				
	3 <sup>rd</sup>				
1	10% Ethanol, 70 °C, 2h	N.D.		10	3
2	3% Acetic acid, 70 °C, 2h	N.D.		10	3
3	50% Ethanol, 70 °C, 2h	N.D.		10	3
<b>Conclusion</b>		<b>PASS</b>		-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

## 6. Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 70°C, 2h

Compound	Result			Limit (mg/kg)	RL (mg/kg)	
	1					
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>			
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
3	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
4	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
5	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
6	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
7	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
8	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
9	Europium (Eu)	N.D.	N.D.	N.D.	0.05	0.01

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10	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05	0.01
11	Iron (Fe)	N.D.	N.D.	N.D.	48	1
12	Lanthanum (La)	N.D.	N.D.	N.D.	0.05	0.01
13	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
14	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
15	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
16	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
17	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
18	Terbium (Tb)	N.D.	N.D.	N.D.	0.05	0.01
19	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS

Test Condition: 3%Acetic acid, 70°C, 2h

	Compound	Result			Limit (mg/kg)	RL (mg/kg)
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 8. Bisphenol A (BPA) content In-house Method, determined by LC-MS

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		1	2		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

## 9. Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC EN 1388-1:1995, determined by ICP-OES

Test Condition: 4% Acetic acid, 22°C, 24h

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		4		
1	Lead (Pb)	N.D.	4	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/L: milligram per litre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 10. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2022

Test specification		Material	Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		2		
		3 <sup>rd</sup>		
1	10% Ethanol, 70 °C, 2h	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	10	3

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3	50% Ethanol, 70 °C, 2h	N.D.	10	3
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 11. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200 °C, 4h

Compound	Material	Limit (%)	RL (%)	
				2
1	Volatile Compounds	0.27	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit

## 12. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

Compound	Material	Requirement	
			2
1	Peroxide Value	Negative	Negative
<b>Conclusion</b>		<b>PASS</b>	-

## 13. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

Test condition: 3% acetic acid, 70 °C, 2h

Compound	Material	Limit (mg/kg)	RL (mg/kg)	
				2
1	Organotin(as Sn)	N.D.	0.1	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

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Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit

**14. Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992**  
In-house Method, determined by LC-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		2		
1	Bisphenol A	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

**15. As specified by client, determination of the released formaldehyde content in submitted sample**  
EN 717-3: 1996, analyzed by UV-Vis

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		5		
1	Formaldehyde	N.D.	80	10
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligrams per kilogram  
(b) RL: report limit

**16. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)**  
BS EN 12875-1:2005

After 10 cycles	Sample	6
	Color <sup>1)</sup>	0
	Gloss	0
	Clouding	0
	Resistant deposits and iridescent layers <sup>2)</sup>	0
	Other aspects	0

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Remark(s): 1.If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.  
2.For the elimination of easily removable deposits.  
3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.  
Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

**17. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013**  
AfPS-GS-2019-01:PAK, determined by GC-MS

	Compound	Material			Limit (mg/kg)	RL (mg/kg)
		category I <sup>1</sup>				
		1	2	3		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	1	0.2
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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Remark: (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)  
1: Material category  
Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.  
Category II: Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

## 18. Specific migration of Bisphenol A (BPA) - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material DD CEN/TS 13130-13:2005, determined by LC-MS

Test Condition: 3% Acetic acid, 70°C, 2h

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Bisphenol A (BPA)	N.D.	N.D.	N.D.	0.05	0.01
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 19. Specific migration of Bisphenol A (BPA) - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material DD CEN/TS 13130-13:2005, determined by LC-MS

Test Condition: 3% Acetic acid, 70°C, 2h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2			
		3 <sup>rd</sup>			
1	Bisphenol A (BPA)	N.D.		0.05	0.01
<b>Conclusion</b>		<b>PASS</b>		-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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**20. Specific migration of Bisphenol A (BPA) - French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material  
DD CEN/TS 13130-13:2005, determined by LC-MS**

Test Condition: 3% Acetic acid, 70°C, 2h

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	2			
	3 <sup>rd</sup>			
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## Material List:

Material #	Position / Sample Description	Material
1	White plastic,lid	PP
2	Transparent silicone,sealing	Silicone
3	Grey plastic, handle	-
4	Transparent glass,bottle	Glass
5	Brown wood,lid	-
6	Article	-

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Photo(s):



Product Photo

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## 声明 Statement

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# 签发测试报告条款

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