



TEST REPORT

Report No.: STSGZ2111183018E

Date: 1-Dec-2021

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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: Glass bottle with silicone pouch
Vendor code: MO6352
Receiving Date: 18-Nov-2021, 23-Nov-2021
Test Period: From 18-Nov-2021 to 29-Nov-2021
Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
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	PASS
4	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV).	PASS
5	Wood moisture - As Client's Requirement	In-house Method	PASS

*****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
6	Overall Migration for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	EN 1186-1:2002 & EN 1186-3:2002	PASS
7	Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs- Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	PASS
8	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
9	Peroxide residues for Silicone Materials in Contact with Foodstuffs- Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia	PASS
10	Bisphenol A Contents – French Law No. 2012-1442	In-house Method, determined by LC-MS	PASS
11	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
12	Pentachlorophenol (PCP) content - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2	EN/ISO 15320:2011, determined by GC-MS	PASS
13	Specific Migration of Formaldehyde - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2	DD CEN/TS 13130-23:2005, determined by UV-Vis	PASS

Result:

1. Cadmium content 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
Conclusion	PASS	PASS	PASS	-	-

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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2. Total Lead content IEC 62321-5:2013, determined by AAS

Compound		Result(s)				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
Conclusion		PASS	PASS	PASS	PASS	-	-

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) 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
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	-
Conclusion			PASS	PASS	PASS	-	-

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

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4. Formaldehyde Release EN 717-3: 1996,analyzed by UV-Vis

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

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

5. Wood moisture In-house Method

Item		Result(s)	Client's Limit (%)	RL (%)
		5		
1	Moisture	6.2	15	1
Conclusion		PASS	-	-

Remark(s): (a) %: mass percentage
(b) RL: report limit

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

Test specification		Result(s)		Limit (mg/dm ²)	RL (mg/dm ²)
		1	2		
1	10%Ethanol, 70°C , 2h	N.D.	N.D.	10	3
2	3%acetic acid , 70°C , 2h	N.D.	N.D.	10	3
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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7. Volatile Compounds Content Order 25/11/1992

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		2		
1	Volatile Compounds	0.41	0.5	0.1
Conclusion		PASS	-	-

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

8. Organotin Content EN 13130-1:2004, determined by ICP-OES

Test condition: 3%acetic acid , 100 °C , 4h

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

Remark(s): (a) mg/kg: milligram per kilogram

9. Peroxide residues French pharmacopoeia

Compound		Material	Requirement
		2	
1	Peroxide residues	Negative	Negative
Conclusion		PASS	-

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10. Bisphenol A Contents In-house Method, determined by LC-MS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	2		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.1
Conclusion		PASS	PASS	-	-

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

11. Extractable Lead, Cadmium 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	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
Conclusion		PASS	-	-

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

12. Pentachlorophenol (PCP) content EN/ISO 15320:2011, determined by GC-MS

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Pentachlorophenol(PCP)	N.D.	N.D.	0.15	0.05
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg = milligram per kilogram
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13. Specific Migration of Formaldehyde DD CEN/TS 13130-23:2005, determined by UV-Vis

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

Test specification		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Formaldehyde	N.D.	N.D.	15	1
Conclusion		PASS	PASS	-	-

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

Material List:

Material #	Position / Sample Description
1	Black silicone, stopper
2	Black silicone, ring
3	White silicone, cover
4	Transparent glass, bottle body
5	Brown bamboo, bottle cover
6	Brown bamboo, straws

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Photo(s):



Product Photo

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