



TEST REPORT

Report No.: STSGZ2111153033E

Date: 25-Nov-2021

Page 1 of 7

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 tumbler

Model/Style/Item #: MO9992

Receiving Date: 15-Nov-2021

Test Period: From 15-Nov-2021 to 23-Nov-2021

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	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
2	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	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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Guangzhou Depuhua Test Services Co. Ltd.

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Report No.: STSGZ2111153033E

Date: 25-Nov-2021

Page 2 of 7

#	Test Item(s)	Reference Standard/Method	Result
4	Overall Migration for Silicone Materials in Contact with Foodstuffs-Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	PASS
5	Bisphenol A content - As Client's Requirement	In-house Method,determined by LC-MS	DATA
6	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

Result:

1. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Material	Limit (%)	RL (%)
			1		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	0.1	-
Conclusion			PASS	-	-

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

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Date: 25-Nov-2021

Page 3 of 7

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1			
1	Cadmium (Cd) CAS#7440-43-9	N.D.		100	10
Conclusion		PASS		-	-

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

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	2		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
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)

4. Overall migration for Plastic Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

Test specification		Material			Limit (mg/dm ²)	RL (mg/dm ²)
		1				
		1 st	2 nd	3 rd		
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
Conclusion		-	-	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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Report No.: STSGZ2111153033E

Date: 25-Nov-2021

Page 4 of 7

5. Bisphenol A content In-house Method, determined by LC-MS

	Compound	Material	Limit (mg/kg)	RL (mg/kg)
		1		
1	Bisphenol A (BPA)	N.D.	-	0.1

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

6. 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)
		2		
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)

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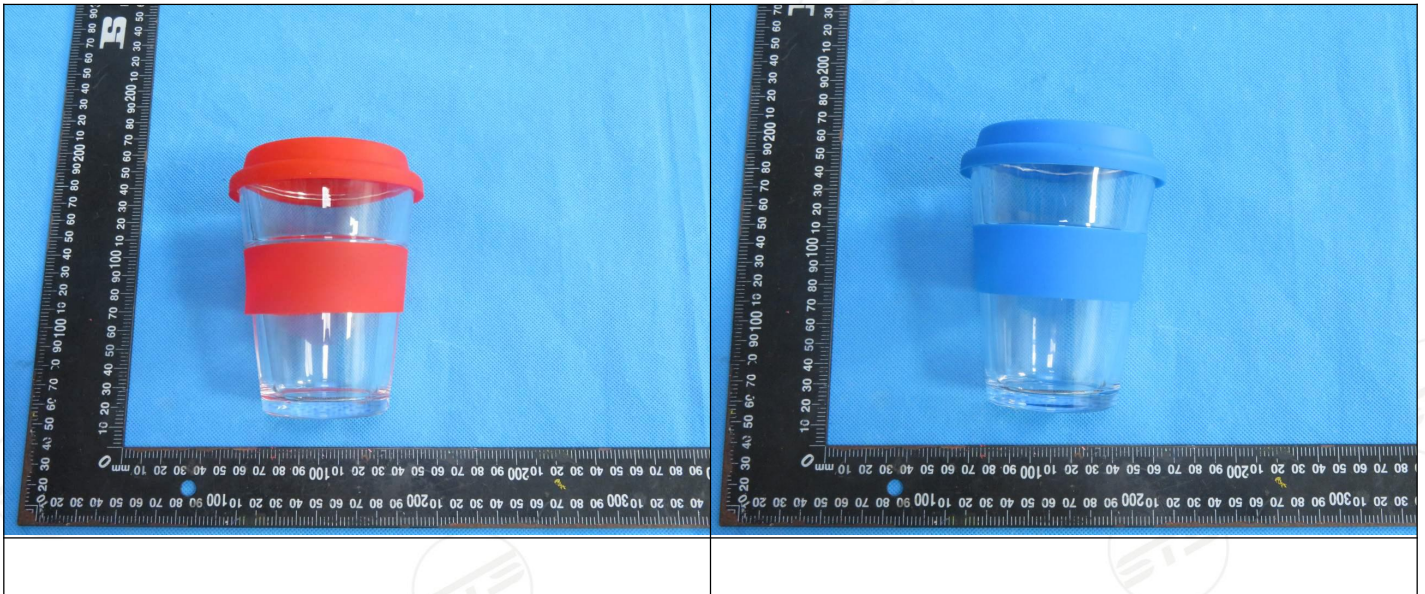
Page 5 of 7

Material List:

Material #	Position / Sample Description	Material
1	Red silicone, cover	Silicone
2	Transparent glass, cup	Glass

Remark(s): (a)The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.

Photo(s):



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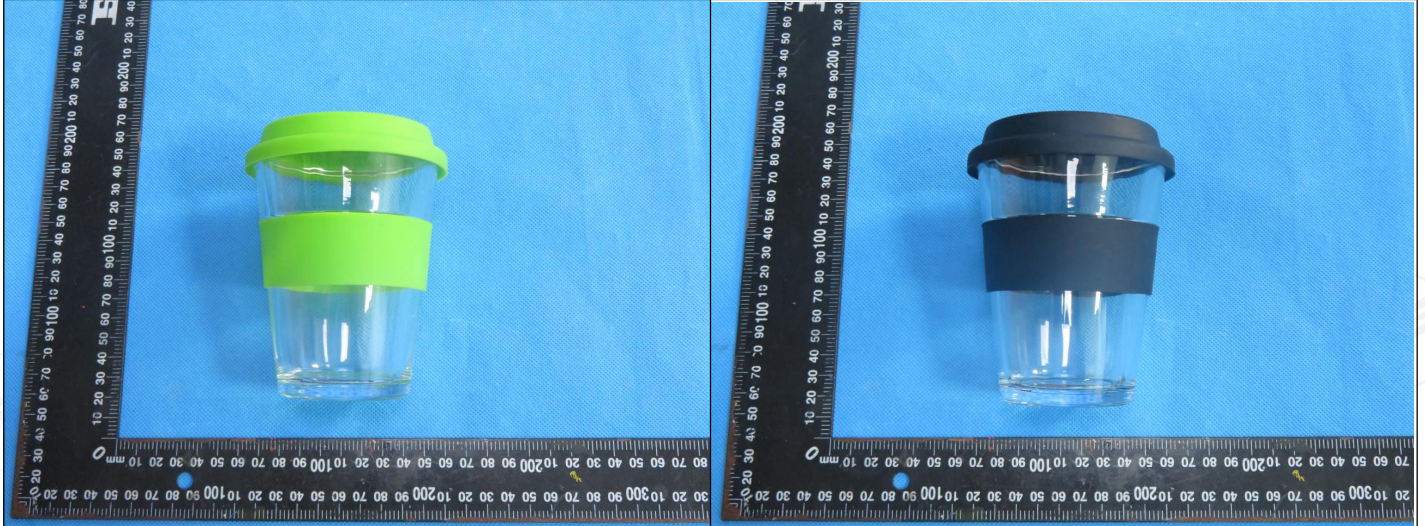


TEST REPORT

Report No.: STSGZ2111153033E

Date: 25-Nov-2021

Page 6 of 7



Product Photo

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Page 7 of 7

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TEST REPORT

Reference No. : WTF21F06060829A1F
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 107978
Sample Name : Silicone lid for tumbler
Model No. : MO9927, MO9992
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 : 2021-06-24 & 2021-07-23
Date of Test : 2021-06-24 to 2021-07-29
Date of Issue : 2021-07-29
Test Result : Please refer to next page (s)
Note : Selected test(s) as requested by applicant

Remarks:

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Prepared By:

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Compiled by:

Approved by:

Abby Zhou

Abby.Zhou / Project Engineer

Dino Zhang

Dino.Zhang / Technical Manager

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

Food Simulant	Test Condition	Result (mg/kg)	LOQ (mg/dm ²)	Limit (mg/dm ²)
		No.1		
3% Acetic Acid	70°C for 2 hours	ND	3	10
10% Ethanol	70°C for 2 hours	ND	3	10

Note:

1. Test method: With reference to EN 1186-1: 2002 and EN 1186-3: 2002
2. "mg/dm²" = Milligrams per square decimeter
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 70°C for 2 hours, analysis was performed by ICP-MS.
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	0.20	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		Black silicone rubber	Silicone rubber (Sample received at 2021-06-24)
2		Black silicone rubber	Silicone rubber (Sample received at 2021-07-23)

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

