



TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 1 of 13

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: Double wall borosilicate glass mug, 250ml ; Double wall borosilicate glass mug, 350ml

Model: MO2198; MO2199

Vendor Code: 107978

Receiving Date: 23-Oct-2023, 6-Nov-2023, 16-Nov-2023

Test Period: From 23-Oct-2023 to 21-Nov-2023

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	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
2	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
3	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
4	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
5	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
6	Pentachlorophenol (PCP) content - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2	EN/ISO 15320:2011, determined by GC-MS	PASS
7	Microwave safe test	BS EN 15284:2007	PASS
8	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 2 of 13

#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material			
9	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
10	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
11	Bisphenol A Contents	In-house Method, determined by LC/MS	PASS
Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material			
12	Extractable Lead, Cadmium	EN 1388-1:1995, determined by AAS	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material			
13	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
14	Peroxide Value	Europe pharmacopoeia, 9.0 chapter 2.5.5.	PASS
15	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	PASS
16	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
17	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS
18	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS

Result:

- 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 ^{*1}			
	2	4		
1 Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	1	0.2
2 Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	1	0.2
3 Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	1	0.2
4 Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	1	0.2
5 Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	1	0.2

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TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 3 of 13

6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	-	-

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.

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

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

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TEST REPORT

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Date: 22-Nov-2023

Page 4 of 13

3. 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	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)

4. 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)
		2		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
	Conclusion	PASS	-	-

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		4		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	1000	10
	Conclusion	PASS	-	-

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

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 5 of 13

5. 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

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

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

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

6. Pentachlorophenol (PCP) content - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2 EN/ISO 15320:2011, determined by GC-MS

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

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

7. Microwave safe test BS EN 15284:2007

Sample Description: Article									
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating
			Short period of heating						
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring	
5A	0	31.0	0	0	0	0	0	0	Pass
5B	0	31.0	0	0	0	0	0	0	Pass
5C	0	32.0	0	0	0	0	0	0	Pass

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Date: 22-Nov-2023

Page 6 of 13

Sample Description: Article									
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating
			long period of heating						
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring	
5A	0	31.0	0	0	0	0	0	0	Pass
5B	0	31.0	0	0	0	0	0	0	Pass
5C	0	32.0	0	0	0	0	0	0	Pass

Requirement:

	The maximum surface temperature after short period heating shall not exceed the following limit value:
Ceramic, glass-ceramic or glass	56°C
Plastics:	60°C

Observation Parameter(s)	Visual damage checking required for the sample
Cracking	No visible change
Color ^a	No visible change
Melting ^b	No visible change
Deformation	No visible change
Suitability for re-use ^c	Suitable for reuse
Charring	No visible change

Remark(s): (1) ^a = if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen
 (2) ^b = article shall not be too soft to handle
 (3) ^c = article shall be washable and stain resistant

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

	Sample	5A	5B	5C
After 10 cycles	Color ¹⁾	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers ²⁾	0	0	0
	Other aspects	0	0	0

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

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Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 7 of 13

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)

Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

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

Test specification		Material	Limit (mg/dm ²)	RL (mg/dm ²)
		2 ^{3rd}		
1	50% Ethanol, 70°C, 2h	N.D.	10	3
2	3% Acetic acid, 70°C, 2h	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)

10. Specific migration of Bisphenol A 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 ^{3rd}		
1	Bisphenol A (BPA)	N.D.	0.05	0.01
Conclusion		PASS	-	-

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TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 8 of 13

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

11. Bisphenol A (BPA) content 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
Conclusion		PASS	-	-

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

Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material

12. Extractable Lead, Cadmium EN 1388-1:1995, determined by AAS

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

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		3		
1	Lead (Pb)	N.D.	4	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
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Date: 22-Nov-2023

Page 9 of 13

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

13. Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test specification		Result(s)	Limit (mg/dm ²)	RL (mg/dm ²)
		2 ^{-3rd}		
1	50% Ethanol, 70°C, 2h	N.D.	10	3
2	3% Acetic acid, 70°C, 2h	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)

14. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

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

15. Specific migration of Organotin(as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 70°C, 2h Volume to surface area ratio: 167 ml/ dm²

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

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Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 10 of 13

16. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		2		
1	Volatile Compounds	0.42	0.5	0.1
Conclusion		PASS	-	-

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

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

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

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

18. Specific migration of Bisphenol A 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)
		2-3rd		
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
Conclusion		PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
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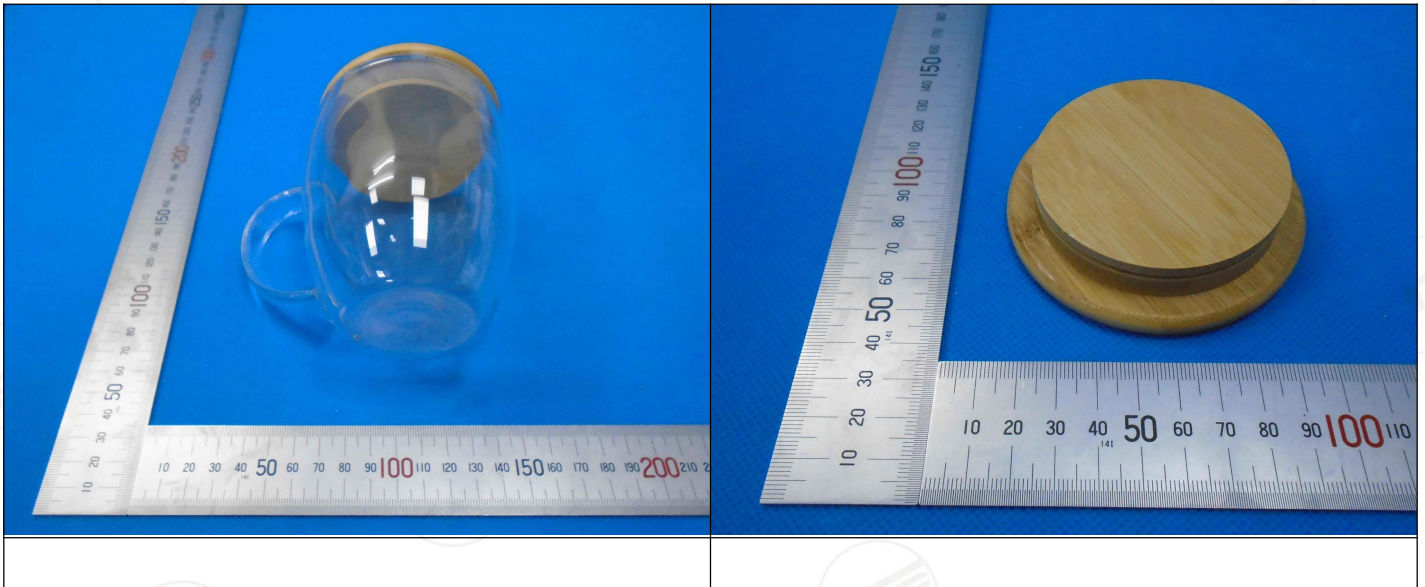
Page 11 of 13

Material List:

Material #	Position / Sample Description	Material
1	Brown bamboo,lid	Bamboo
2	Translucent silicone,sealring	Silica gel
3	Transparent glass,cup	Glass
4	Transparent coating,lid	-
5	Article	-

Remark(s): (a) The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.
(b) The data of #2 was retesting result.

Photo(s):



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TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 12 of 13



Product Photo

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TEST REPORT

Report No.: STSGZ2310233074E

Date: 22-Nov-2023

Page 13 of 13

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签发测试报告条款

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