



# TEST REPORT

Report No.: STSGZ2305313045E

Date: 9-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:** Recycled glass mug with bamboo lid

**Model/Style/Item #:** MO2091

**Receiving Date:** 31-May-2023

**Test Period:** From 31-May-2023 to 8-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	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	<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
<b>Paper and board intended to come into contact with foodstuffs - AP2002</b>			
5	Specific Migration of Formaldehyde	EN 1541:2001, cold water extraction and determined by UV-Vis	<b>PASS</b>
6	Pentachlorophenol (PCP)	EN ISO 15320:2011 and determined by GC/MS	<b>PASS</b>
<b>Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>			
7	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
8	Bisphenol A Contents	In-house Method, determined by LC/MS	<b>PASS</b>
9	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	<b>PASS</b>
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material</b>			
10	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
11	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	<b>PASS</b>
12	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
13	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	<b>PASS</b>
14	Bisphenol A Contents	In-house Method, determined by LC-MS	<b>PASS</b>
15	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	<b>PASS</b>
16	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	<b>PASS</b>
17	Microwave safe test	BS EN 15284:2007	<b>PASS</b>
18	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 AAS	<b>PASS</b>

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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)
		3		
1	Lead(Pb) CAS#7439-92-1	N.D.	500	10
<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)

### 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)
		3		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
<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)

### 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 (%)
			3		
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

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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	-
<b>Conclusion</b>			<b>PASS</b>	-	-

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

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

## Paper and board intended to come into contact with foodstuffs - AP2002

### 5. Specific Migration of Formaldehyde EN 1541:2001, cold water extraction and determined by UV-Vis

3% Acetic acid, 70°C, 2h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		1		
1	Formaldehyde	1.41	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) EN ISO 15320:2011 and determined by GC/MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		1		
1	Pentachlorophenol CAS# 87-86-5	N.D.	0.15	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)

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

## 7. Overall Migration

EN 1186-1:2002 & EN 1186-3:2022

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

## 8. Bisphenol A (BPA) content

In-house Method, determined by LC-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		3		
1	Bisphenol A	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

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

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## 9. 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)	
	3					
	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)

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

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

Test specification	Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )	
	3					
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>			
1	3% Acetic acid, 70°C, 2h	N.D.	N.D.	N.D.	10	3
2	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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## 11. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material	Requirement
		3	
1	Peroxide Value	Negative	Negative
<b>Conclusion</b>		<b>PASS</b>	-

## 12. 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 / dm<sup>2</sup>

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		3		
1	Organotin(as Sn)	N.D.	0.1	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)

## 13. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		3		
1	Volatile Compounds	N.D.	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	-	-

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

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## 14. Bisphenol A Contents

In-house Method, determined by LC-MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		3		
1	Bisphenol A	N.D.	Prohibit	0.1
<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)

## 15. 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)
		3		
		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)

## 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	4
	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. Microwave safe test BS EN 15284:2007

Sample Description:Article												
Sample	Arcing	Max surface Temperature of cup wall after short period heating(°C)	Visual damage checking required for ceramic/glass sample								Rating	
			Short period of heating				Long period of heating					
			Cracking	Crazing	Scaling	Color	Cracking	Crazing	Scaling	Color		
2A	0	32	0	0	0	0	0	0	0	0	0	Pass
2B	0	31	0	0	0	0	0	0	0	0	0	Pass
2C	0	33	0	0	0	0	0	0	0	0	0	Pass

Remark(s): (a) 0:No visible change

### 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

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Crazing <sup>a</sup>	No visible change
Scaling <sup>b</sup>	No visible change
Color <sup>c</sup>	No visible change

Remark(s): (1) <sup>a</sup> = refers to the glaze  
(2) <sup>b</sup> = refers to on-glaze decoration  
(3) <sup>c</sup> = if several colors are present on one article to be inspected, the color with the greatest change shall be chosen.

## 18. 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 AAS

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
<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)

## Material List:

Material #	Position / Sample Description	Material
1	Brown wood,cup lid	Wood
2	Transparent glass,cup	glass
3	Transparent silica gel,ring	silicone
4	Article	-

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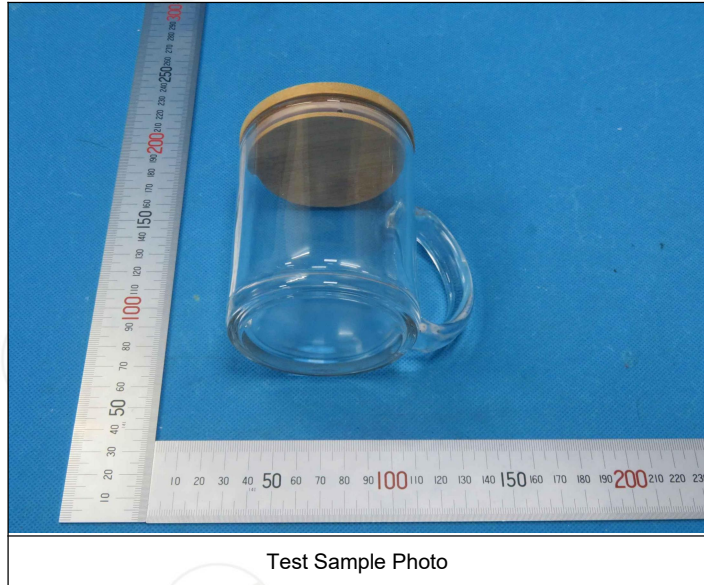
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## Photo(s):



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## 声明 Statement

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# 签发测试报告条款

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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3. 除非相关政府部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。

The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。

The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。

Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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8. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。

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9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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