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Mid Ocean Brands B.V. Applicant:

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong Address:

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

Stainless Steel drink chiller stick Sample Name:

Model/Style/Item #: MO6791

29-Sep-2022 **Receiving Date:**

From 29-Sep-2022 to 11-Oct-2022 **Test Period:**

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	Polycyclic-aromatic hydrocarbons (PAHs) contentItem 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
5	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 Item(s)	Reference Standard/Method	Result
6	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
7	Extractable Heavy metal - Regulation (EC) No 1935/2004 and Council of Europe Resolution CMRes(2013)9	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-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	In-house Method,determined by LC- MS	PASS
9	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
10	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
11	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
12	Overall Migration - Regulation (EC) No 1935/2004,French Decree 2007- 766 and French Order 25/11/1992	EN 1186-1:2002 & EN 1186-3:2002& EN 1186- 14:2002	PASS
13	Bisphenol A Contents – French Law No. 2012-1442	In-house Method,determined by LC- MS	PASS

Result:

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	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)

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Guangzhou Depuhua Test Services Co. Ltd.

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

	Compound	Res	Limit	RL	
Compound		1	2	(mg/kg)	(mg/kg)
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)

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
			2	(%)	(%)
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	-
	Conclu	sion	PASS	-	-

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

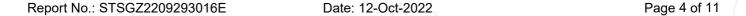
(b) N.D.: Not detected (result is less than RL)

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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 category I ^{*1}	Limit (mg/kg)	RL (mg/kg)
		2	. (gg)	(99)
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
	Conclusion	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.

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Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) 5. BS EN 12875-1:2005

	Sample	3	
	Color ¹⁾	0	
	Gloss	0	
After 10 cycles	Clouding	0	
	Resistant deposits and iridescent layers ²⁾	0	
	Other aspects	0	

Remark(s):

1). If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.

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 safety 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)

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

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

	Test specification	Result(s)		RL (mg/dm²)
1	10%Ethanol, 40℃ , 2h	N.D.	10	3
2	3%acetic acid , 40℃ , 2h	N.D.	10	3
3	50%Ethanol, 40℃ , 2h	N.D.	10	3
	Conclusion	PASS	-	-



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Remark(s): (a) mg/dm²: milligram square decimetre

(b) RL: Report limit

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

7. **Extractable Heavy metal**

BS EN 13130-1: 2004&BS EN 11885:2009,determined by ICP-OES and ICP-MS

Elements		Material 1		Limit (mg/kg)		RL (mg/kg)	
		1	Tin (Sn)	N.D.	N.D.	700	100
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001



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19 Cadmium (Co 20 Mercury (Hg) 21 Thallium (TI)	PASS	Conclusion	PASS	-	-	-	-
19 Cadmium (Co 20 Mercury (Hg) 21 Thallium (TI)	N.D.	Titanium (Ti)	N.D.	-	-	2	1
19 Cadmium (Co 20 Mercury (Hg)	Mg) N.D.	Magnesium (Mg)	N.D.	-	<u>-</u>	2	1
19 Cadmium (Co	N.D.	Thallium (TI)	N.D.	0.0007	0.0001	0.0002	0.0001
, ,	N.D.	Mercury (Hg)	N.D.	0.021	0.003	0.002	0.001
10 Alselle (As)	d) N.D.	Cadmium (Cd)	N.D.	0.035	0.005	0.002	0.001
18 Arsenic (As)	N.D.	Arsenic (As)	N.D.	0.014	0.002	0.002	0.001

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

Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 8. and its amendment (EU)2020/1245

In-house Method, determined by LC-MS

Compound		Material	Limit	RL
	Compound	2	(mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	Not Detected	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)

Volatile Compounds Content 9. Order 25/11/1992

Test condition: 200 °C, 4h

	Commonad	Material Limi	Limit	RL
	Compound	2	(%)	(%)
1	Volatile Compounds	0.44	0.5	0.1
	Conclusion	PASS	-	-



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

Organotin Content

EN 13130-1:2004, determined by ICP-OES

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

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

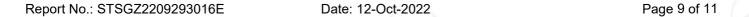
Peroxide residues French pharmacopoeia

Commonad		Material	Do avvivo mo out	
	Compound	2	Requirement	
1	Peroxide residues	Negative	Negative	
	Conclusion	PASS	-	

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

	Test specification	Material 2	Limit (mg/dm²)	RL (mg/dm²)
1	10%Ethanol, 40℃ , 2h	N.D.	10	3
2	3%acetic acid , 40℃ , 2h	N.D.	10	3
3	50%Ethanol, 40°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)

Bisphenol A Contents - French Law No. 2012-1442

In-house Method, determined by LC-MS

	Compound 2	Limit	RL	
		2	(mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	Not Detected	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)

Material List:

Material #	Position / Sample Description	
1	Silvery metal,rod	
2	Black silicone,ring	
3	Article	

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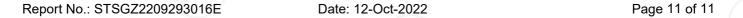
Photo(s):



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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.

10. 报告的签发记录可通过登录 www.stsgz.com 查询。如需进一步查询报告有效性或核实报告,需与本公司联系。 Issuance records of the Report are available on the internet at www.stsgz.com. Further enquiry of validity or verification of the Report should be addressed to the company.