

Report No.: STSGZ2112133054E Date: 24-Dec-2021 Page 1 of 12

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: RPET drinking bottle

Model/Style/Item #: MO6555

Receiving Date: 13-Dec-2021, 20-Dec-2021

Test Period: From 13-Dec-2021 to 24-Dec-2021

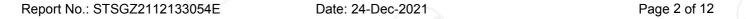
Add Information:

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







#	Test Item(s)	Reference Standard/Method	Result
4	Overall migration for Plastic 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	Specific migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	DD CEN/TS 13130-13:2005, determined by LC-MS	PASS
6	Specific migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 13130-1:2004, determined by GC/MS	PASS
7	Specific migration of Heavy Metal for Plastic Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 13130-1: 2004, determined by ICP-OES	PASS
8	Bisphenol A (BPA) content - Client's requirement	In-house Method , Solvent extract and determined by LC-MS	PASS

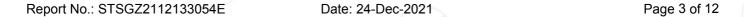
Result:

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)





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

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

	100.3					
		Compound	Result(s)	Limit	RL	
	Compound		1+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.	<u>-</u>	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	-	-	

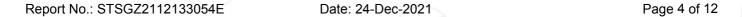
Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than RL)

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

			Material			
	Test specification		1			RL (mg/dm²)
		1 st	2 nd	3 rd	(mg/dm²)	
1	10% Ethanol, 70℃ , 2h	5.3	N.D.	N.D.	10	3
2	3% Acetic acid , 70℃ , 2h	N.D.	N.D.	N.D.	10	3
3	95% Ethanol, 60℃ , 2h	N.D.	N.D.	N.D.	10	3
4	Isooctane, 40℃, 0.5h	N.D.	N.D.	N.D.	10	3
	Conclusion	-	-	PASS	-	-

			Material			
Test specification		2			Limit (mg/dm²)	RL (mg/dm²)
		1 st	2 nd	3 rd		, ,
1	10% Ethanol, 70℃ , 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid , 70°C , 2h	N.D.	N.D.	N.D.	10	3
3	95% Ethanol, 60°C , 2h	N.D.	N.D.	N.D.	10	3
4	Isooctane, 40℃, 0.5h	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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Specific migration of Bisphenol A for Plastic Materials in Contact with Foodstuffs DD CEN/TS 13130-13:2005, determined by LC-MS

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

Compound			Material			
		1			Limit (mg/kg)	RL (mg/kg)
		1 st	2 nd	3 rd		
1	Bisphenol A (BPA)	N.D.	N.D.	N.D.	0.005	0.01
	Conclusion	-	-	PASS	-	-

			Material			
	Compound		Limit (mg/kg)	RL (mg/kg)		
		1 st	2 nd	3 rd		
1	Bisphenol A (BPA)	N.D.	N.D.	N.D.	0.005	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)

6. Specific migration of Primary Aromatic Amine for Plastic Materials in Contact with Foodstuffs EN 13130-1:2004, determined by GC/MS

Test condition: 3% acetic acid, 70 °C , 2h

Compound			Material			
		1			Limit (mg/kg)	RL (mg/kg)
		1 st	2 nd	3 rd	, , ,	
1	Primary Aromatic Amine(PAA)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-	•	PASS	-	-

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Compound			Material			
		2			Limit (mg/kg)	RL (mg/kg)
		1 st	2 nd	3 _{rd}		, , ,
1	Primary Aromatic Amine(PAA)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-	-	PASS	-	-

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

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

(d) 22 PAAs in entry 43 to Appendix 8 of REACH Annex XVII and 1 PAA in Table 1 of Annex I of (EU) No 10/2011 not exceed 0,002 mg/kg each; The sum of other PAAs not exceed 0,01 mg/kg

Specific migration of Heavy Metal for Plastic Materials in Contact with Foodstuffs EN 13130-1: 2004, determined by ICP-OES

Test condition: 3% acetic acid, 70 ℃, 2h

			Material			RL (mg/kg)
	Compound			Limit (mg/kg)		
		1 st	2 nd	3 rd		, 5 5,
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	N.D.	_	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01



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13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	<u> </u>	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	Conclusion	-	-	PASS	-	-

Compound			Material			
		2			Limit (mg/kg)	RL (mg/kg)
		1 st	2 nd	3 rd	. 3 3,	(99)
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	_	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	N.D.	- (0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01



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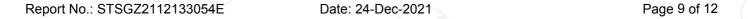
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	- (0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	- <	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	Conclusion	-	-	PASS	-	-

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

(b) RL: Report limit

(c) N.D.: Neport initial (c) N.D.: Not detected (result is less than RL)
(d) The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg





8. Bisphenol A (BPA) content - Client's requirement In-house Method, Solvent extract and determined by LC-MS

	Compound	Mate	Client's	RL (mg/kg)	
Compound		1	2		Limit (mg/kg)
1	Bisphenol A (BPA)	N.D.	N.D.	Not detected	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)

Material List:

Material #	Position / Sample Description
1	Red plastic,lid
2	Transparent red plastic,bottle

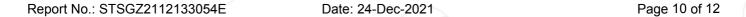
Remark(s): The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

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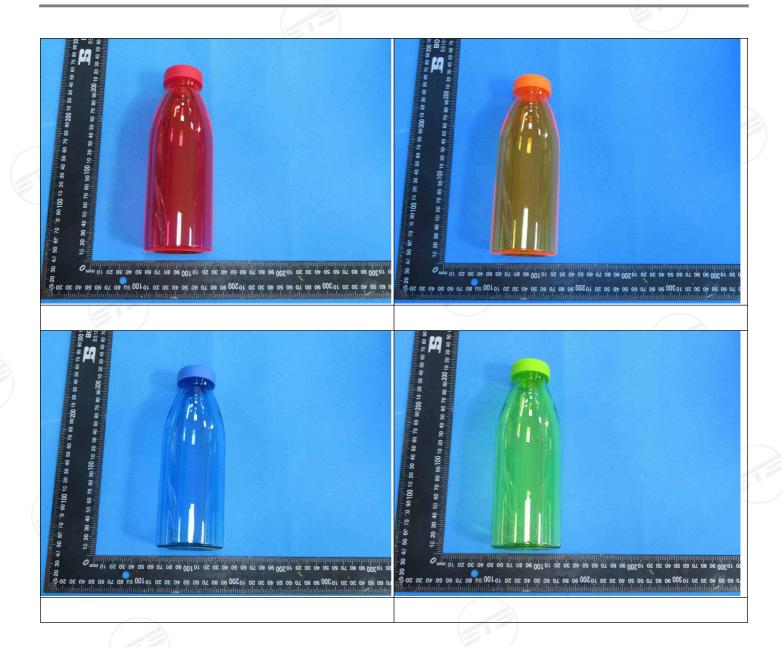
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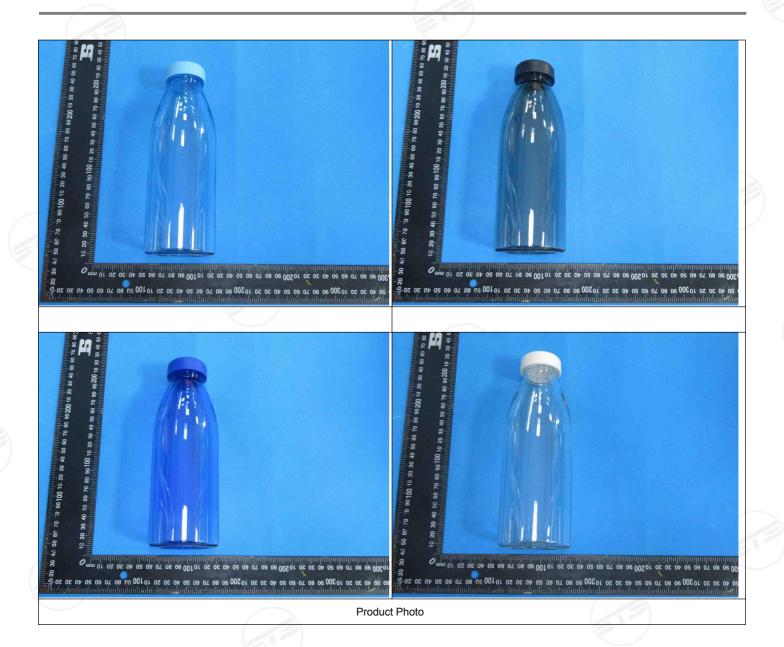


Photo(s):





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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。
 Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing
- 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.