



TEST REPORT

Report No.: STSGZ2308073082E

Date: 9-Aug-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: RPET bottle with SS lid

Model/Style/Item #: MO6237

Receiving Date: 7-Aug-2023

Test Period: From 7-Aug-2023 to 8-Aug-2023

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material			
1	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
2	Bisphenol A Contents	In-house Method, determined by LC/MS	PASS
3	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material			
4	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
5	Peroxides value	French pharmacopoeia method	PASS
6	Volatile Compounds Content	Order 25/11/1992	PASS
7	Organotin Content for Silicone Materials in Contact with Foodstuffs	EN 13130-1:2004, determined by ICP-OES	PASS
8	Specific migration of Bisphenol A for Silicone Materials in Contact with Foodstuffs	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
9	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Result(s):

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

1. 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)
		1-3rd		
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)

2. 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)
		1-3rd		
1	Bisphenol A (BPA)	N.D.	0.05	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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3. Bisphenol A (BPA) content In-house Method,determined by LC-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		1		
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,French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material

4. 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)
		1-3rd		
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)

5. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

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

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6. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200 °C, 4h

Compound		Material	Limit (%)	RL (%)
		1		
1	Volatile Compounds	0.24	0.5	0.1
Conclusion		PASS	-	-

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

7. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

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

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

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

8. Specific migration of Bisphenol A for Silicone 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	Limit (mg/kg)	RL (mg/kg)
		1-3rd		
1	Bisphenol A (BPA)	N.D.	0.05	0.01
Conclusion		PASS	-	-

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

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

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	1			
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)

Material List:

Material #	Position / Sample Description	Material
1	Transparent silicone,sealring	silica gel

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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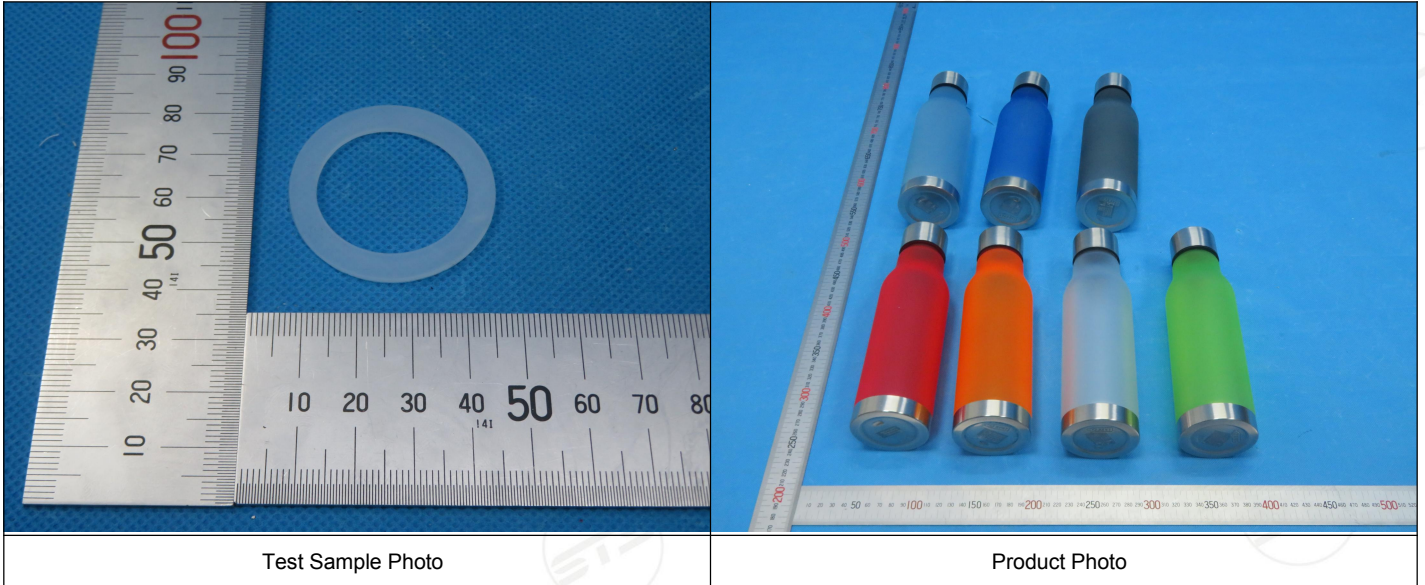
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Photo(s):



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