



TEST REPORT

Report No.: STSGZ2312013043E

Date: 8-Dec-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: Glass bottle with bamboo lid

Model/Style/Item #: MO6426

Vendor Code: 107978

Receiving Date: 1-Dec-2023

Test Period: From 1-Dec-2023 to 8-Dec-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	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV).	PASS
6	Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I	In house method, determined by GC-MS	PASS
7	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS

*****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
Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material			
8	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
9	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
10	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS/MS	PASS
11	Bisphenol A (BPA) content	In-house Method, determined by LC-MS	PASS
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material			
12	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
13	Bisphenol A Contents	In-house Method, determined by LC/MS	PASS
14	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material			
15	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
16	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	PASS
17	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	PASS
18	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
19	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS
20	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, 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			
21	Extractable Lead, Cadmium	EN 1388-1:1995, determined by AAS	PASS

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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

Compound	Material		Limit (mg/kg)	RL (mg/kg)	
	category I ^{*1}				
	1	3			
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
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.

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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 (%)
			1	3		
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)

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		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	500	10
Conclusion		PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
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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)
		1	2	3		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
	Conclusion	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)

5. Formaldehyde - EN 71-9:2005+A1:2007 With reference to EN 717-3:1996, analyzed by UV Spectrophotometer (UV).

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		4		
1	Formaldehyde	N.D.	80	10
	Conclusion	PASS	-	-

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

6. Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I In house method, determined by GC-MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		4		
1	Pentachlorophenol(PCP) CAS#87-86-5	N.D.	Not Detected	5
	Conclusion	PASS	-	-

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

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**7. 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

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)

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Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material

8. Overall migration

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

Test specification		Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
		1				
		1 st	2 nd	3 rd		
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
Conclusion		-	-	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

9. Specific migration of Heavy Metal

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

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

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		1				
		1 st	2 nd	3 rd		
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

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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
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	-	-

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10. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by LC-MS/MS

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

Compound	Result			Limit (mg/kg)	RL (mg/kg)	
	1					
	1 st	2 nd	3 rd			
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-	-	PASS	-	-

Compound	Material			Limit (mg/kg)	RL (mg/kg)	
	1					
	1 st	2 nd	3 rd			
1	biphenyl-4-ylamine 4-aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2	Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3	4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4	2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5	o-aminoazotoluene 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6	5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7	5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8	4-methoxy-m-phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002

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11	3,3'-dimethoxybenzidine o-dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	6-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS# 101-14-4	N.D.	N.D.	N.D.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	4-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002
25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

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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11. 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 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

12. Overall Migration EN 1186-1:2002 & EN 1186-3:2022

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

13. 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
Conclusion		PASS	-	-

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

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14. 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 ^{-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)

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

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

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

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16. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material	Requirement
		3	
1	Peroxide Value	Negative	Negative
Conclusion		PASS	-

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

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

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		3		
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)

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

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		3		
1	Volatile Compounds	0.24	0.5	0.1
Conclusion		PASS	-	-

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

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19. 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
Conclusion		PASS	-	-

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

20. 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)
		3-3rd		
1	Bisphenol A (BPA)	N.D.	Prohibit	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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Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material

21. 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)
		2		
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
(c) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description	Material
1	White plastic, cover	PP
2	Transparent glass, bottle	glass
3	Translucent silica gel, sealing ring	silica gel
4	Brown wood, cover	-
5	Article	-

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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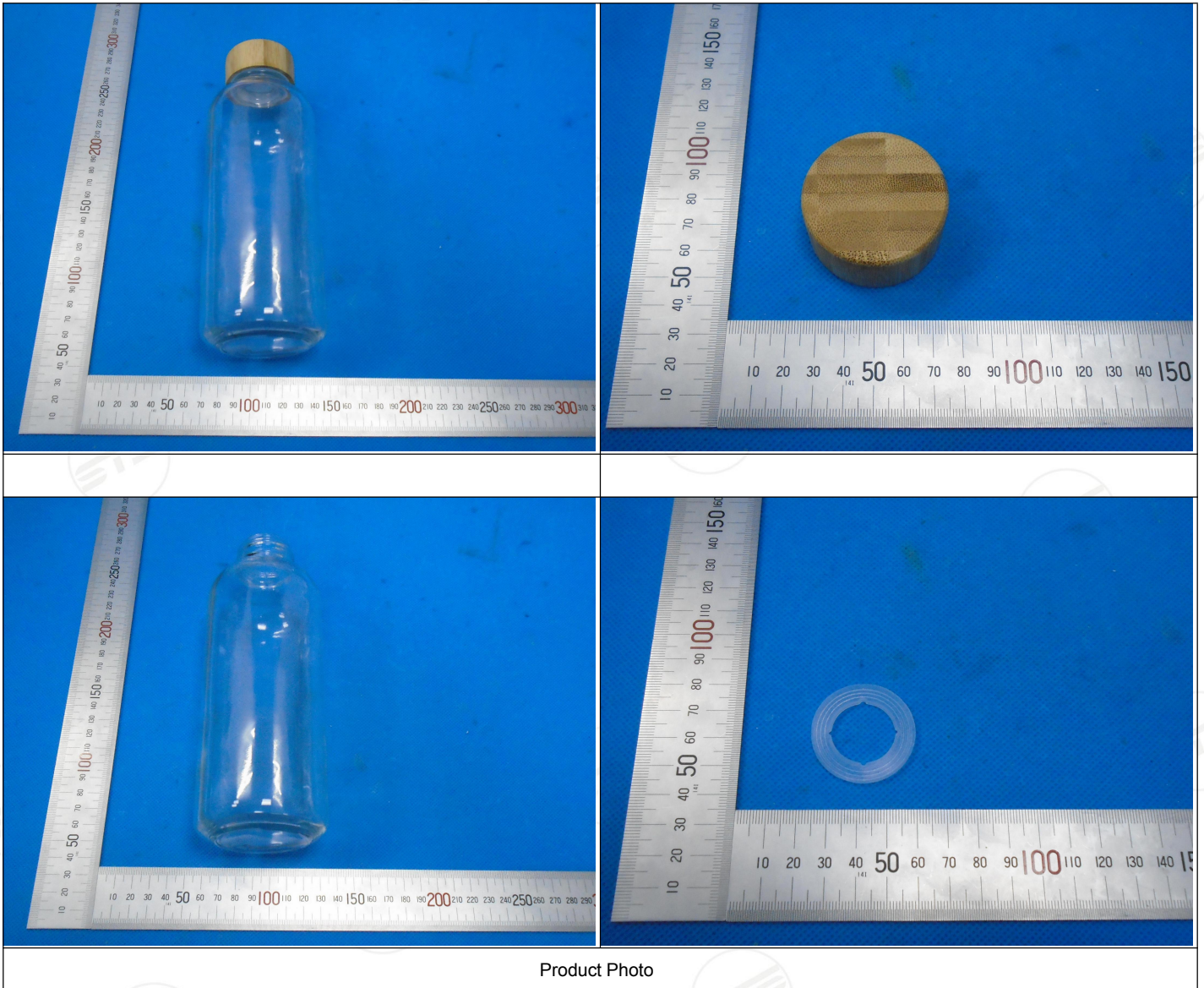
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Photo(s):



Product Photo

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