



TEST REPORT

Report No.: STSGZ2404303038E

Date: 5-Jun-2024

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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: Double wall insulated bottle

Model/Style/Item #: MO2383

Vendor Code: 107978

Receiving Date: 30-Apr-2024,16-May-2024,22-May-2024

Test Period: From 30-Apr-2024 to 5-Jun-2024

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	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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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

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#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material			
6	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
7	Bisphenol A Contents	In-house Method, determined by LC-MS-MS	PASS
8	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC-MS-MS	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material			
9	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
10	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	PASS
11	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	PASS
12	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
13	Bisphenol A Contents	In-house Method, determined by LC-MS-MS	PASS
14	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC-MS-MS	PASS
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			
15	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
16	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
17	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS-MS	PASS
18	Bisphenol A (BPA) content	In-house Method, determined by LC-MS-MS	PASS
Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9			
19	Extractable Heavy Metal	CM/Res(2013)9, determined by ICP-OES and ICP-MS	PASS
Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material			
20	Extractable Lead, Cadmium	84/500/EEC, determined by AAS	PASS
Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Coating Material			
21	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
22	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
23	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS-MS	PASS
24	Bisphenol A (BPA) content	In-house Method, determined by LC-MS-MS	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	6	7	10			
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	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	6	7	10		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	PASS	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) ⁵	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
Conclusion		PASS	PASS	PASS	PASS	-	-

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Compound		Material					Limit (mg/kg)	RL (mg/kg)
		5	6	7	8	10		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	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)

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)
		3	6	7		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	-	-

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		1	10		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	1000	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)

5. 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	9A	9B	9C
	Color ¹⁾	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0

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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)

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

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

Test specification		Result(s)	Limit (mg/dm ²)	RL (mg/dm ²)
		7 ^{-3rd}		
1	3% Acetic acid, 100°C, 1h	N.D.	10	3
2	50% Ethanol, 100°C, 1h	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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7. Bisphenol A (BPA) content In-house Method, determined by LC-MS-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		7		
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)

8. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS-MS

Test Condition: 3% Acetic acid, hot-fill, 40°C, 24h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		7-3rd		
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

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

Test specification		Result(s)	Limit (mg/dm ²)	RL (mg/dm ²)
		7-3rd		
1	3% Acetic acid, 100°C, 1h	N.D.	10	3
2	50% Ethanol, 100°C, 1h	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)

10. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material	Requirement
		7	
1	Peroxide Value	Negative	Negative
Conclusion		PASS	-

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

Test condition: 3% Acetic acid, hot-fill,40 °C,24h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		7		
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)

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

Test condition: 200 °C, 4h

Compound		Material	Limit (%)	RL (%)
		7		
1	Volatile Compounds	0.23	0.5	0.1
Conclusion		PASS	-	-

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

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

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		7		
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)

14. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS-MS

Test Condition: 3% Acetic acid, hot-fill, 40°C, 24h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		7-3rd		
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
Conclusion		PASS	-	-

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

15. Overall migration

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

Test specification		Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
		6				
		1 st	2 nd	3 rd		
1	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 1h	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)

16. Specific migration of Heavy Metal

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

Test condition: 3% Acetic acid, hot-fill,40°C,24h

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		6				
		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	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) Material #6 is the result of re-submission

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

Test Condition: 3% Acetic acid, hot-fill, 40°C, 24h

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	6				
	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)
	6				
	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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Guangzhou Depuhua Test Services Co. Ltd.

A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

Web://www.stsgz.com

e-mail: stsgz@stsapp.com



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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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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

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18. Bisphenol A (BPA) content In-house Method,determined by LC-MS-MS

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		6			
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, Council of Europe Resolution CMRes(2013)9

19. Specific Migration of Heavy Metal CM/Res(2013)9, determined by ICP-OES and ICP-MS

Test condition: Artificial tap water , hot-fill,40°C,24h

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		8					
		1 st + 2 nd	3 rd	1 st + 2 nd	3 rd	1 st + 2 nd	3 rd
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
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

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

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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
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	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)

Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material

20. Extractable Lead, Cadmium 84/500/EEC, determined by AAS

Test Condition: 4% Acetic acid, 22°C, 24h

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		4		
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)

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

Web://www.stsgz.com

e-mail: stsgz@stsapp.com



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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 Coating Material

21. Overall migration

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

Test specification		Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
		10				
		1 st	2 nd	3 rd		
1	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 1h	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)

22. Specific migration of Heavy Metal

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

Test condition: 3% Acetic acid, hot-fill,40°C,24h

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		10				
		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
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.: Not detected (result is less than RL)

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

Test Condition: 3% Acetic acid, hot-fill, 40°C, 24h

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	10				
	1 st	2 nd	3 rd		
1 Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
Conclusion	-	-	PASS	-	-

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e-mail: stsgz@stsapp.com

Phone: +86 (0)20-6664 1688

Fax: +86 (0)20-6664 1699

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Compound	Material			Limit (mg/kg)	RL (mg/kg)	
	10					
	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
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	7-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

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e-mail: stsgz@stsapp.com



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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	5-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)

24. Bisphenol A (BPA) content In-house Method,determined by LC-MS-MS

Test Item	Material		Client's Limit (mg/kg)	RL (mg/kg)
	10			
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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 Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

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Material List:

Material #	Position / Sample Description	Material
1	Brown coating,surface	-
2	Silvery metal,shell	-
3	Black plastic,bottom	-
4	White enamel,liner	enamel
5	Silvery metal,lid	-
6	Black plastic,lid	PP
7	Brown silicone,sealring	silicone
8	Silvery metal,inner cap	stainless steel
9	Article	-
10	White coating,liner	-

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

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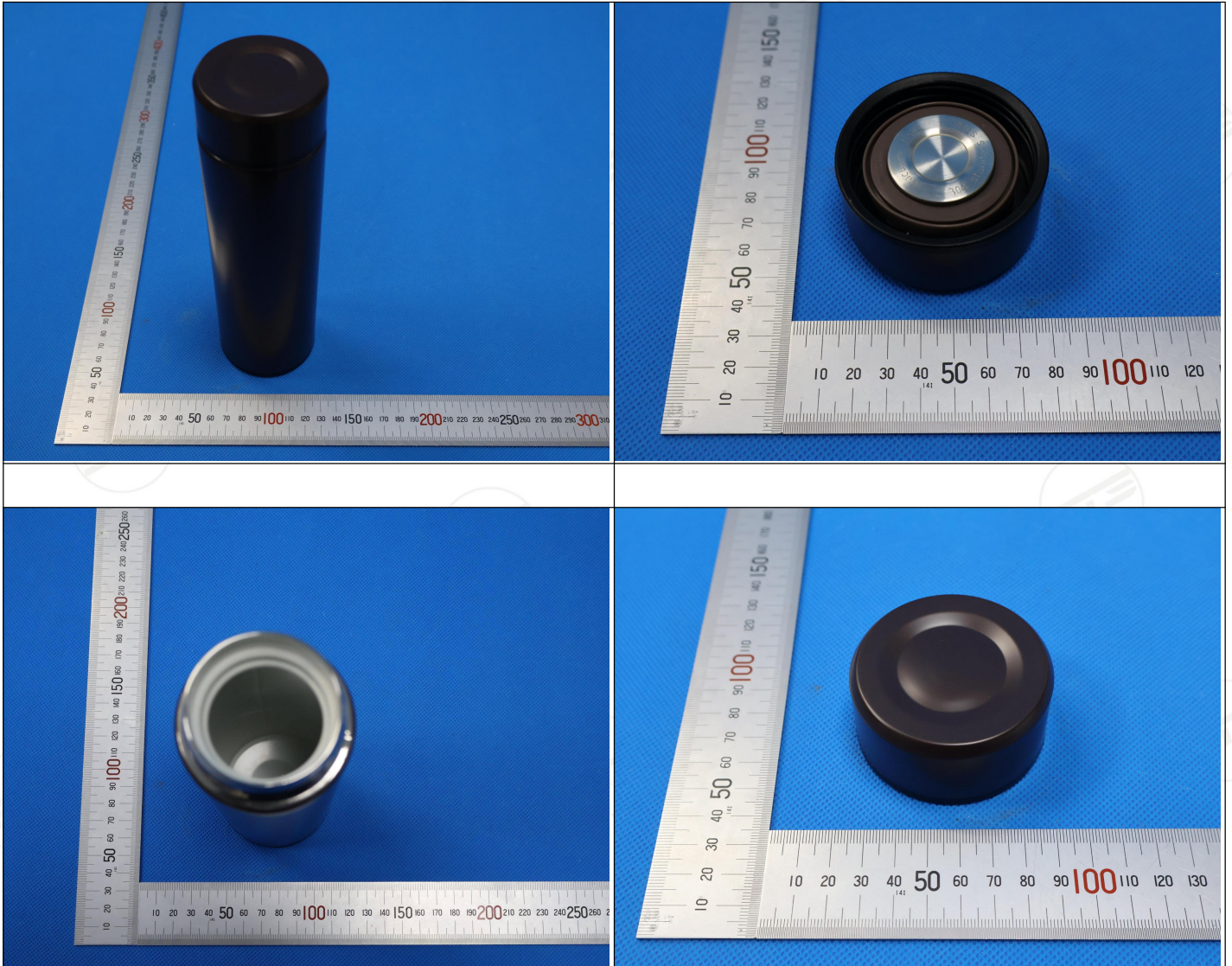
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Test Sample Photo

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

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e-mail: stsgz@stsapp.com

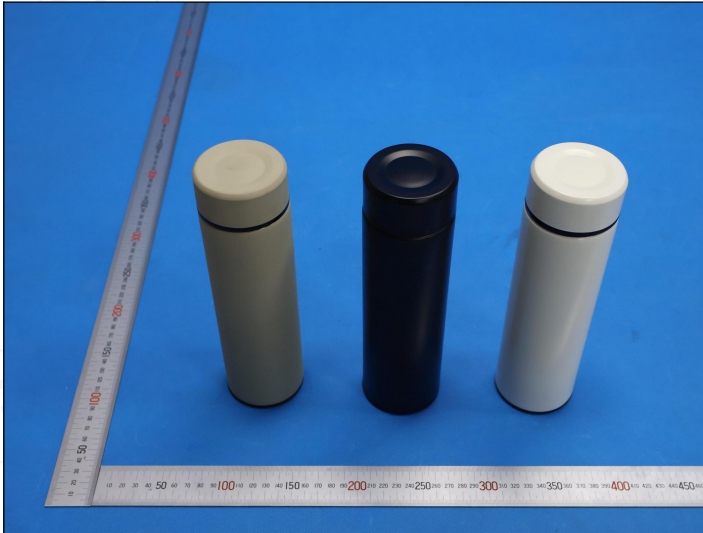


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Product Photo

END OF REPORT

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Guangzhou Depuhua Test Services Co. Ltd.

A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

Web://www.stsgz.com

e-mail: stsgz@stsapp.com



TEST REPORT

Report No.: STSGZ2404303038E

Date: 5-Jun-2024

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

Web://www.stsgz.com

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").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关政府部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

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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.
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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.
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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。

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