



# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 1 of 15

**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 lunchbox with locking lid

**Model/Style/Item #:** M09923

**Vendor Code:** 107978

**Receiving Date:** 17-Apr-2024,7-May-2024

**Test Period:** From 17-Apr-2024 to 11-May-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	<b>PASS</b>
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	<b>PASS</b>
3	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
4	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>

\*\*\*\*\*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

e-mail: stsgz@stsapp.com



# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 2 of 15

#	Test Item(s)	Reference Standard/Method	Result
<b>Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>			
5	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
6	Bisphenol A Contents	In-house Method, determined by LC-MS-MS	<b>PASS</b>
7	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC-MS-MS	<b>PASS</b>
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material</b>			
8	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
9	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	<b>PASS</b>
10	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
11	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	<b>PASS</b>
12	Bisphenol A Contents	In-house Method, determined by LC-MS-MS	<b>PASS</b>
13	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC-MS-MS	<b>PASS</b>
<b>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</b>			
14	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
15	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
16	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS-MS	<b>PASS</b>
17	Bisphenol A (BPA) content	In-house Method, determined by LC-MS-MS	<b>PASS</b>
<b>Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material</b>			
18	Extractable Lead, Cadmium	EN 1388-1:1995, determined by AAS	<b>PASS</b>

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Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 3 of 15

## 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 <sup>*1</sup>					
	2	3	4			
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	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.	1	0.2
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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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Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 4 of 15

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 (%)
			2	3	4		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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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Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 5 of 15

## 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)
		2	3	4		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test specification		Result(s)		Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		2 <sup>-3rd</sup>	3 <sup>-3rd</sup>		
1	3% Acetic acid, 100°C, 2h	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 2h	N.D.	N.D.	10	3
3	isooctane, 60°C, 1.5h	N.D.	3	10	3
4	95% Ethanol, 60°C, 3.5h	N.D.	N.D.	10	3
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 6 of 15

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

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

Test Condition: 3% Acetic acid, 100°C, 2h

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	2 <sup>-3rd</sup>	3 <sup>-3rd</sup>		
1 Bisphenol A (BPA)	N.D.	N.D.	0.05	0.01
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test specification	Result(s)		Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
	2 <sup>-3rd</sup>	3 <sup>-3rd</sup>		
1 3% Acetic acid, 100°C, 2h	N.D.	N.D.	10	3
2 50% Ethanol, 100°C, 2h	N.D.	N.D.	10	3
3 isooctane, 60°C, 1.5h	N.D.	3	10	3
4 95% Ethanol, 60°C, 3.5h	N.D.	N.D.	10	3
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 7 of 15

## 9. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material		Requirement
		2	3	
1	Peroxide Value	Negative	Negative	Negative
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-

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

Test condition: 3% Acetic acid, 100°C, 2h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Organotin(as Sn)	N.D.	N.D.	0.1	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

## 11. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material		Limit (%)	RL (%)
		2	3		
1	Volatile Compounds	0.285	0.203	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) Materials #3 is the results of re-submission

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 8 of 15

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test Condition: 3% Acetic acid, 100°C, 2h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2-3rd	3-3rd		
1	Bisphenol A (BPA)	N.D.	N.D.	Prohibit	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

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

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 100°C, 2h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 2h	N.D.	N.D.	N.D.	10	3

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 9 of 15

3	isooctane, 60°C, 1.5h	3	N.D.	N.D.	10	3
4	95% Ethanol, 60°C, 3.5h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 15. Specific migration of Heavy Metal EN 13130-1: 2004, determined by ICP-OES

Test condition: 3% Acetic acid, 100°C, 2h

Compound	Result(s)			Limit (mg/kg)	RL (mg/kg)	
	4					
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>			
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)	0.228	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
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01

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Date: 14-May-2024

Page 10 of 15

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
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

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

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

Test Condition: 3% Acetic acid, 100°C, 2h

	Compound	Result			Limit (mg/kg)	RL (mg/kg)
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

	Compound	Material			Limit (mg/kg)	RL (mg/kg)
		4				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 11 of 15

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	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

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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.: STSGZ2404173067E

Date: 14-May-2024

Page 12 of 15

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)

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

Test Item	Material		Client's Limit (mg/kg)	RL (mg/kg)
	4			
1	Bisphenol A	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

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

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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 13 of 15

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

**18. 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)
		1		
1	Lead (Pb)	N.D.	4	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

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	Transparent glass,lunch box	glass
2	Transparent silicone,sealing ring	silicone
3	Translucent silicone,stopper	silicone
4	Transparent plastic,cover	PP

Remark(s): (a)The data of #3 was retesting result.

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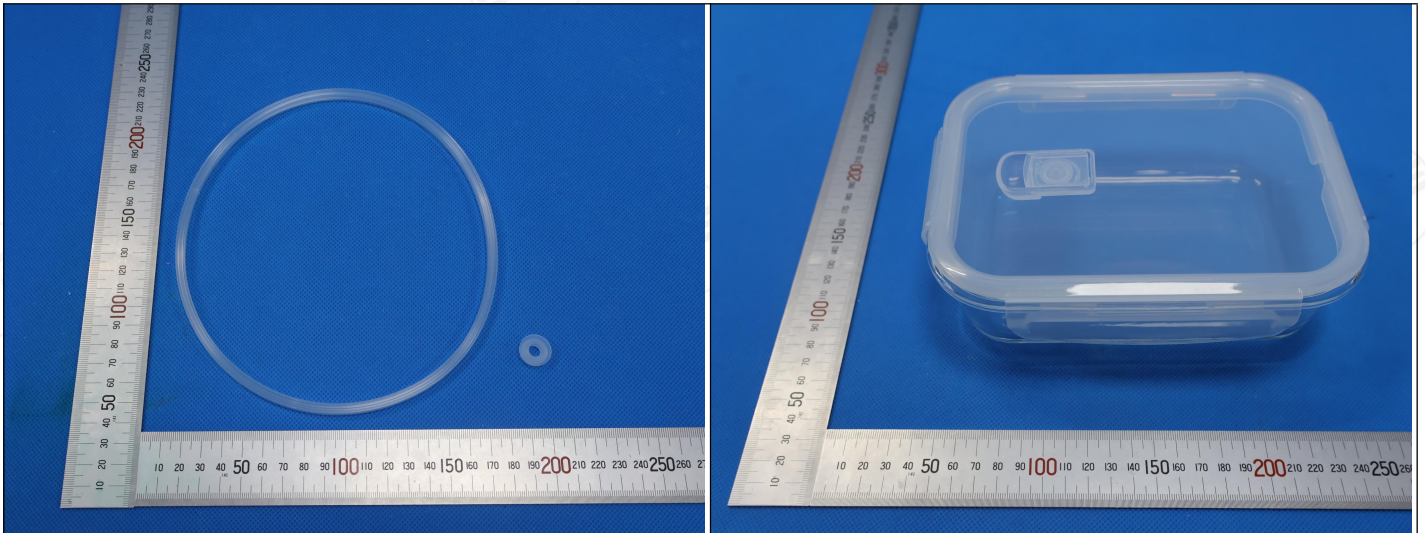
# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 14 of 15

## Photo(s):



Product Photo

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**<<<<<< END OF REPORT >>>>>>**  
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# TEST REPORT

Report No.: STSGZ2404173067E

Date: 14-May-2024

Page 15 of 15

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e-mail: stsgz@stsapp.com

Web://www.stsgz.com

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