



# TEST REPORT

Report No.: STSGZ2311103053E

Date: 23-Nov-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:** High borosilicate glass lunch box

**Model/Style/Item #:** MO2255

**Vendor Code:** 107978

**Receiving Date:** 10-Nov-2023,21-Nov-2023

**Test Period:** From 10-Nov-2023 to 22-Nov-2023

**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
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	<b>PASS</b>
4	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>

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Mark Mai  
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
5	Microwave safe test	BS EN 15284:2007	PASS
6	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
<b>Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material</b>			
7	Extractable Lead, Cadmium	EN 1388-1:1995, determined by AAS	PASS
<b>Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2</b>			
8	Specific Migration of Formaldehyde	DD CEN/TS 13130-23:2005, determined by UV-Vis	PASS
9	Pentachlorophenol (PCP) content	EN/ISO 15320:2011, determined by GC-MS	PASS

## Result:

### 1. 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
<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)

### 2. 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
<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)

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**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**

Compound			Result(s)		Limit (%)	RL (%)
			2	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	-
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	-	-

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

**4. 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 **			
		2	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

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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
<b>Conclusion</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.

## 5. Microwave safe test BS EN 15284:2007

Sample Description: Article									
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating
			Short period of heating						
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring	
4A	0	31.0	0	0	0	0	0	0	Pass
4B	0	32.0	0	0	0	0	0	0	Pass
4C	0	31.0	0	0	0	0	0	0	Pass

Sample Description: Article									
Sample	Arcing	Max surface Temperature of sample after short period heating(°C)	Visual damage checking required for plastic sample						Rating
			long period of heating						
			Cracking	Color	Melting	Deformation	Suitability for re-use	Charring	
4A	0	31.0	0	0	0	0	0	0	Pass
4B	0	32.0	0	0	0	0	0	0	Pass
4C	0	31.0	0	0	0	0	0	0	Pass

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## Requirement:

	The maximum surface temperature after short period heating shall not exceed the following limit value:
Ceramic, glass-ceramic or glass	56°C
Plastics:	60°C

Observation Parameter(s)	Visual damage checking required for the sample
Cracking	No visible change
Color <sup>a</sup>	No visible change
Melting <sup>b</sup>	No visible change
Deformation	No visible change
Suitability for re-use <sup>c</sup>	Suitable for reuse
Charring	No visible change

Remark(s): (1) <sup>a</sup> = if several colours are present on one article to be inspected, the colour with the greatest change shall be chosen  
 (2) <sup>b</sup> = article shall not be too soft to handle  
 (3) <sup>c</sup> = article shall be washable and stain resistant

## 6. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

	Sample	4A	4B	4C
After 10 cycles	Color <sup>1)</sup>	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers <sup>2)</sup>	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

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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, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC - For Glass Material**

## 7. 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)

**Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2**

## 8. Specific Migration of Formaldehyde DD CEN/TS 13130-23:2005, determined by UV-Vis

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

Test specification		Material	Limit (mg/kg)	RL (mg/kg)
		2		
1	Formaldehyde	N.D.	15	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)

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## 9. Pentachlorophenol (PCP) content EN/ISO 15320:2011, determined by GC-MS

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		2		
1	Pentachlorophenol(PCP)	N.D.	0.15	0.05
<b>Conclusion</b>		<b>PASS</b>	-	-

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

## Material List:

Material #	Position / Sample Description
1	Transparent glass, bowl
2	Brown fibreboard, lid
3	White soft plastic, belt
4	Article

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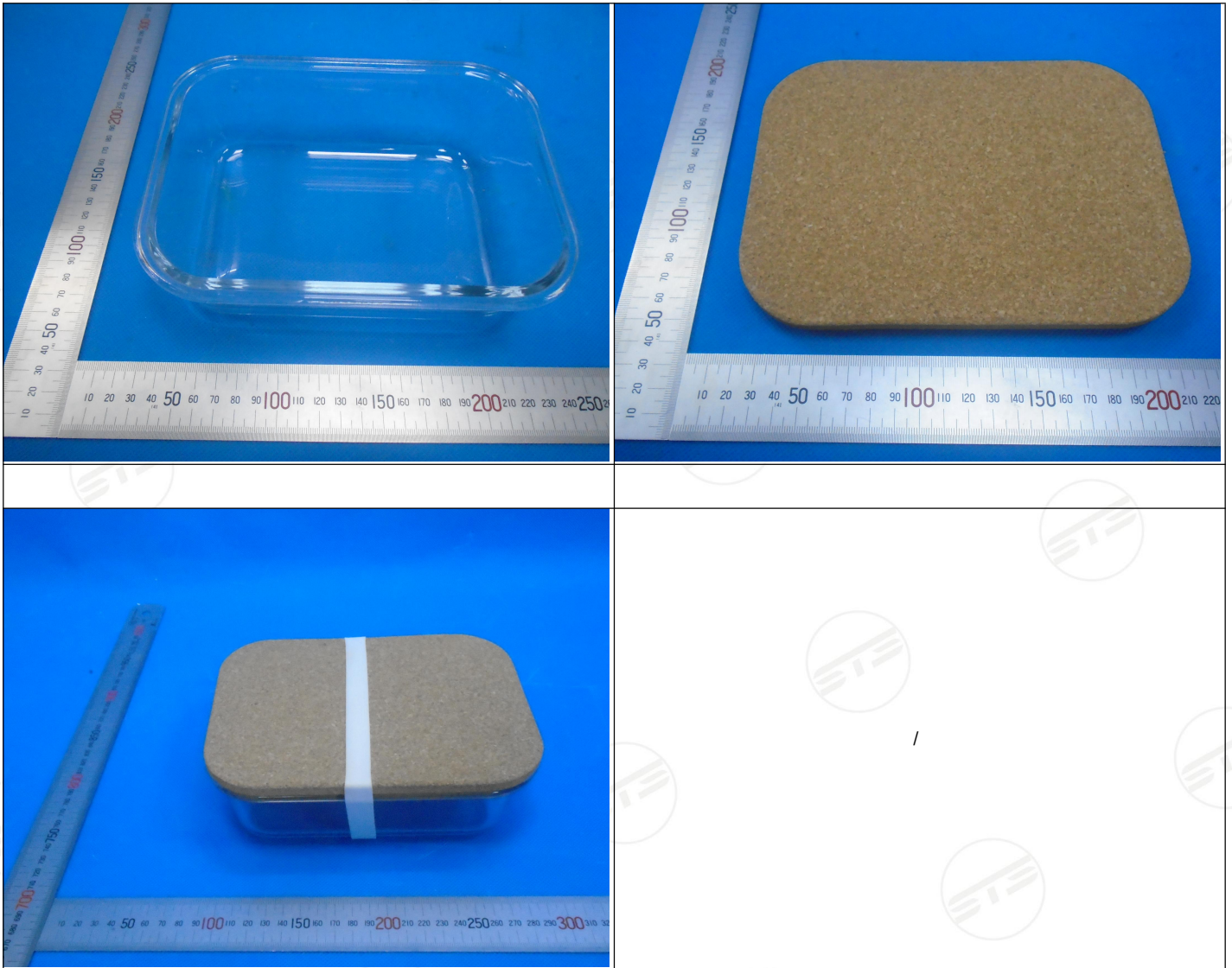
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## Photo(s):



Test Sample Photo

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