TEST REPORT

Applicant : Mid Ocean Brands B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan, Kowloon, Hong Kong

(The following sample(s) was (were) submitted and identified by client as)

Sample Name : Glass lunchbox with bamboo lid

Model/Item No. : MO9962

Vendor Code : 107978

Test Period : From Mar. 02, 2026 to Mar. 13, 2026

Tests Conducted : As requested by the applicant, for details refer to next page(s).

Signed for and on behalf of

Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by:

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

Room 701, Building 2, No.89, Majun Street, Nansha District, Guangzhou, Guangdong, China
Tel：+86-20-84900678 Fax：+86-20-84910993
Email：cs@ccilab.com.cn Website：www.ccilab.com.cn

TEST REPORT

Executive Summary:

No.	TESTED SAMPLES	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Entry 23 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Cadmium (Cd)	PASS
2	Tested material(s) of submitted sample(s)	Entry 50 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Polycyclic-aromatic hydrocarbons (PAH)	PASS
3	Tested material(s) of submitted sample(s)	Entry 51&52 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Phthalate	PASS
4	Tested material(s) of submitted sample(s)	Entry 63 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Lead (Pb)	PASS
5	Tested material(s) of submitted sample(s)	Regulation 1935/2004/EC & Resolution AP(2004)2 On cork stoppers and other cork materials and articles intended to come into contact with foodstuffs - Pentachlorophenol (PCP) content - Specific migration of formaldehyde	PASS
6	Tested material(s) of submitted sample(s)	European Council Directive 84/500/EEC and its amendment Commission Directive 2005/31/EC for ceramic articles intended to come into contact with foodstuffs - Migration Lead and Cadmium	PASS
7	Tested material(s) of submitted sample(s)	Regulation (EC) No. 1935/2004 & Resolution AP(2004)5 on Silicone rubber products intended to come into contact with foodstuffs - Overall Migration - 3% Acetic acid - 50% Ethanol - Isooctane - 95% Ethanol - Bisphenol A (BPA)	PASS
8	Tested material(s) of submitted sample(s)	French Arrêté du 25 novembre 1992 on Silicon - Overall Migration - 3% Acetic acid - 50% Ethanol - Isooctane - 95% Ethanol - Volatile Organic matter (VOM)	PASS

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No.	TESTED SAMPLES	STANDARD / REQUIREMENT	CONCLUSION
		- Peroxide Value - Specific migration of organotin (As Tin) - Bisphenol A (BPA)	
9	Submitted sample(s)	Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003	PASS
10	Submitted sample(s)	Thermal shock - EN 1183:1997 method B	SEE RESULT
11	Submitted sample(s)	Microwave safe test	PASS

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TESTS CONDUCTED:

1. Cadmium (Cd)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+2	100	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

2. Polycyclic-aromatic hydrocarbons (PAH)

Test Method: With reference to AfPS GS 2019:01 PAK, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (mg/kg)	Test Result (mg/kg)
			1+2
Benzo[a]pyrene (BaP)	50-32-8	0.2	N.D.
Benzo[e]pyrene (BeP)	192-97-2	0.2	N.D.
Benzo[a]anthracene (BaA)	56-55-3	0.2	N.D.
Chrysen (CHR)	218-01-9	0.2	N.D.
Benzo[b]fluoranthene (BbFA)	205-99-2	0.2	N.D.
Benzo[j]fluoranthene (BjFA)	205-82-3	0.2	N.D.
Benzo[k]fluoranthene (BkFA)	207-08-9	0.2	N.D.
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	0.2	N.D.
Conclusion			PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. Requirement: a) For articles for supply to the general public: No more than 1mg/kg each;
   b) For toys: No more than 0.5mg/kg e

3. Phthalates

Test Method: With reference to EN 14372:2004, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (%)	Limit (%)	Test Result (%)
				1+2
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.003	0.1	N.D.
Dibutyl phthalate (DBP)	84-74-2	0.003	0.1	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	0.003	0.1	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	0.005	0.1	N.D.
Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	0.005	0.1	N.D.
Di-n-octyl phthalate (DNOP)	117-84-0	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Conclusion				PASS

Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. / = Not Specified.

4. Lead (Pb)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+2	500	2	N.D.	PASS
3	500	2	N.D.	PASS
4	500	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

5.1. Pentachlorophenol (PCP)

Test Method: with reference to LFGB § 64 BVL B 82.02.8 - 2001.,was analyzed by Gas Chromatography-Mass Spectrometry (GC-MS).

Material No.	Unit	RL	Limit	Test Result	Conclusion
4	mg/kg	0.05	0.15	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Report Limit.

5.2. Specific migration of formaldehyde

Test Method: With reference to EN 13130-1:2004 and DD CEN/TS 13130-23:2005, and the analysis was performed by UV-VIS.

Test Condition: 3% Acetic acid , 100℃, 1h

Test Items	Unit	Limit	RL	Test Result
				4
Formaldehyde	mg/kg	15	5	N.D.
Conclusion				PASS

Note:

1. mg/kg = Milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Report Limit.

6.1. Migration Lead and Cadmium

Test Method: With reference to 84/500/EEC & 2005/31/EC, the analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Condition: 4% Acetic acid, 22℃, 24h

Category 2

Test Item	Depth(mm)	Volume (mL)	Test Result (mg/L)	Conclusion
			3	
Lead (Pb)	52	945	< 0.1	PASS
Cadmium (Cd)	52	945	< 0.01	PASS

Limit:

Category		Limit	
		Lead (Pb)	Cadmium (Cd)
Category 1	Articles that cannot be filled and articles that can be filled the internal depth of which does bot exceed 25mm	0.8mg/dm2	0.07mgdm2
Category 2	Articles, not in categories 1 or 3, witch can be filled	4.0mg/L	0.3mg/L
Category 3	Cooking ware, packaging and storage vessels having a capacity of more than three liters	1.5mg/L	0.1mg/L

Note:

1. mg/L = Milligram per liter.
2. mg/dm2 = Milligram per square decimetre.
3. < = Less than.

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7.1. Overall Migration

Test Method: With reference to EN 1186-1:2002, EN 1186-3:2022

S/V ration: 1.01 dm^2 / 101 mL

Simulant Used	Limit (mg/dm^2)	RL (mg/dm^2)	Test Result (mg/dm^2)
			1
Overall Migration - 3% Acetic acid (100℃, 1h)	10	1	N.D.
Overall Migration - 50% Ethanol (100℃, 1h)	10	1	N.D.
Overall Migration - Isooctane (60℃, 1h)	10	1	N.D.
Overall Migration - 95% Ethanol (60℃, 3h)	10	1	N.D.
Conclusion			PASS

Note:

1. mg/dm^2 = Milligram per square decimeter.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

7.2. Bisphenol A (BPA)

Test Method: With reference to EPA 3550C:2007, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

Material No.	Limit (μg/kg)	RL (μg/kg)	Test Result (μg/kg)	Conclusion
1	Not Detected	1	N.D.	PASS

Note:

1. μg/kg = Microgram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

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8.1. Overall Migration

Test Method: With reference to the Annex III to Arrêté du 25 novembre 1992

S/V ration: 1.01 dm^2 / 101 mL

Simulant Used	Limit (mg/dm^2)	RL (mg/dm^2)	Test Result (mg/dm^2)
			1
Overall Migration - 3% Acetic acid (100℃, 1h)	10	1	N.D.
Overall Migration - 50% Ethanol (100℃, 1h)	10	1	N.D.
Overall Migration - Isooctane (60℃, 1h)	10	1	N.D.
Overall Migration - 95% Ethanol (60℃, 3h)	10	1	N.D.
Conclusion			PASS

Note:

1. mg/dm^2 = Milligram per square decimeter.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

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8.2. Volatile organic matter (VOM)

Test Method: With reference to the Annex III to Arrêté du 25 novembre 1992

Test Condition: 200℃, 4h

Material No.	Limit (%)	RL (%)	Test Result (%)	Conclusion
1	0.5	0.1	0.3	PASS

Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

8.3. Peroxide Value

Test Method: With reference to the French pharmacopeia, 9th edition

Material No.	Limit	Test Result	Conclusion
1	Negative	Negative	PASS

8.4. Specific migration of organotin (As Tin)

Test Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX

Test Item	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)
			1
Tin	0.1	0.1	N.D.
Conclusion			PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

8.5. Bisphenol A (BPA)

Test Method: With reference to EPA 3550C:2007, the analysis was performed by Ultra High Performance Liquid Chromatography coupled with tandem Mass Spectrometry (UPLC-MS-MS).

Material No.	Limit (μg/kg)	RL (μg/kg)	Test Result (μg/kg)	Conclusion
1	Not Detected	1	N.D.	PASS

Note:

1. μg/kg = Microgram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

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9. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

Material No.	3											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers#		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Remark:

1, * = If several colors are present on one article to be inspected, the color with the greatest change shall be chosen.

2, # = For the elimination of easily removable deposits.

Evaluation of inspection criteria:

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Note:

1, Sample photos are for reference only. Actual colors of the photos may vary due to lighting and output process.

2, Requirements quoted from the Clause 5.4 of the 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 safety cleaned in a dishwasher shall, on average, 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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10. Thermal shock

Test Method: With reference to EN 1183:1997 method B.

Test material No.		3		
Number of test sample		10		
Test sample material type		Glass		
Test method		Test method B		
Temperature of sample (℃)	**Temperature of water bath (℃)**	**Temperature difference (℃)**	**No. of failure**	**Cumulative failure in %**
100	20	80	0	0
110	20	90	0	0
120	20	100	0	0
140	20	120	0	0
160	20	140	0	0
180	20	160	0	0
200	20	180	0	0
220	20	200	0	0
240	20	220	5	50
260	20	240	4	90
280	20	260	1	100
Thermal shock endurance Δt50 (℃)			220	
Standard deviation (℃)			2.4	

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11. Microwave safe test

Test Method: With reference to BS EN 15284:2007

- Materials and articles in contact with food stuffs - Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware

No. of specimen

Test material No.	3
Number of tested sample(s)	3
Number of controlled sample(s)	1

Test Result: PASS

1) Visually inspect the test specimen: No visible change.

2) The highest surface temperature: 36 ℃(after the short period)

41 ℃ (after the long period)

Note:

Test requirement:

1.Visually inspect the test specimen for damage according to the criteria in next table :

Material	Cracking	Crazing	Scaling	Color	Melting	Deformation	Suitability for re-use	Charring
Ceramic	+	+[a]	+[b]	+[c]				
Glass,glass-ceramic	+		+[b]	+[c]				
Plastic	+			+[c]	+[d]	+	+[e]	+

(+)=to be inspected

[a] refers to the glaze

[b] refers to on-glaze decoration

[C] if several colors are present on one article to be inspected, the color with the greatest change shall be chosen

[d] article shall not be too soft to handle

[e] article shall be washable and stain resistant

1.1 For the color criterion,an inspector and inspection site that meet the requirements of Clause 4 and 5.2 of EN12875-2:2001 are required[2]

2.The maximum surface temperature of handles after the short period heating(6.6)shall not exceed the following limit values:

ceramic,glass-ceramic or glass: 56 ℃

plastics: 60 ℃

2.1 These temperatures can be found by reference to a one minute contact time in EN ISO 13732-1[1].

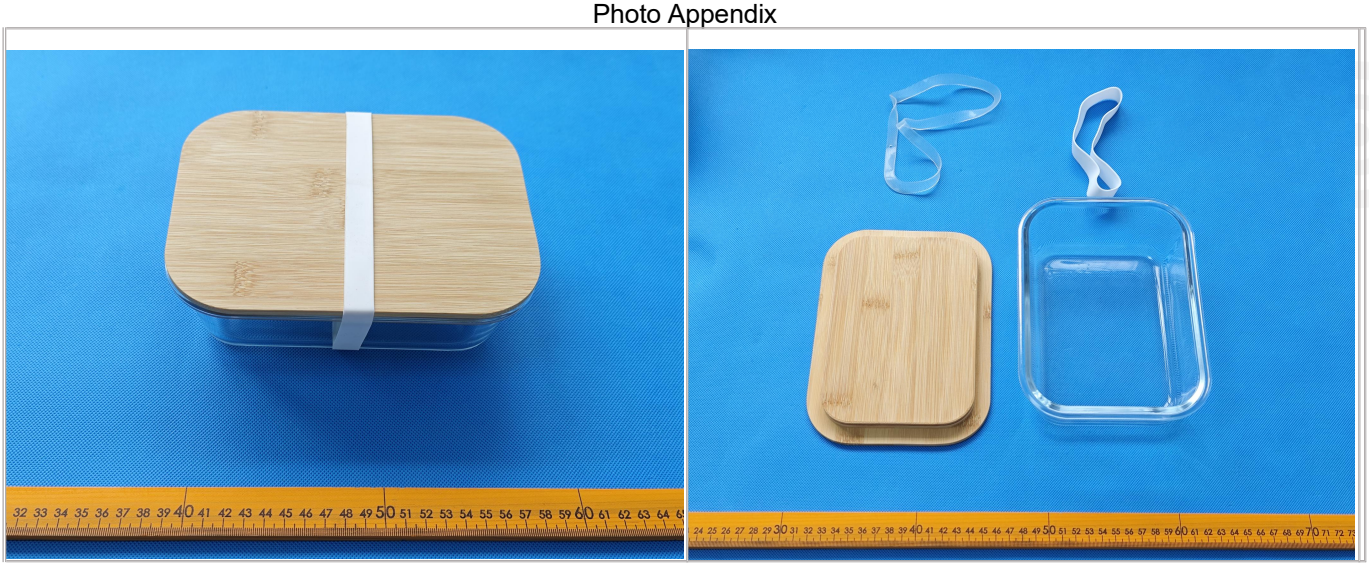
2.2 As temperatures measured after the long periodof heating vary significantly depending on the microwave oven used for testing,no temperature limit values apart from those for handles are given.

TEST REPORT

Test Material(s) List

Material No.	Description	Location	Material
1	Transparent white silicone	Sealing ring	Silicone
2	White plastic	Band	/
3	Transparent glass	Lunchbox body	/
4	Light brown bamboo	Lid	/

Photo Appendix



★★★★★End of Report★★★★★

Compliance Control Institute (Guangzhou) Co., Ltd.

Room 701, Building 2, No.89, Majun Street, Nansha District, Guangzhou, Guangdong, China
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