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 tumbler

Model/Item No. : MO9992

Vendor Code : 107978

Test Period : From Apr. 03, 2026 to Apr. 15, 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.

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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)	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
6	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 - Bisphenol A (BPA)	PASS
7	Tested material(s) of submitted sample(s)	French Arrêté du 25 novembre 1992 on Silicone - Overall Migration - 3% Acetic acid - 50% Ethanol - Volatile Organic matter (VOM) - Peroxide Value - Specific migration of organotin (As Tin) - Bisphenol A (BPA)	PASS
8	Submitted sample(s)	Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003	PASS
9	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+3+4	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+3+4
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 .

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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+3+4
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+3+4	500	2	N.D.	PASS
2	500	2	N.D.	PASS

Note:

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

5. 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
			2	
Lead (Pb)	100	300	< 0.1	PASS
Cadmium (Cd)	100	300	< 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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6.1. Overall Migration

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

S/V ration: 1.90 dm^2 / 190 mL

Simulant Used	Limit (mg/dm^2)	RL (mg/dm^2)	Test Result (mg/dm^2)
			1
Overall Migration - 3% Acetic acid (70℃, 2h)	10	1	N.D.
Overall Migration - 50% Ethanol (70℃, 2h)	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.

6.2. 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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7.1. Overall Migration

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

S/V ration: 1.90 dm^2 / 190 mL

Simulant Used	Limit (mg/dm^2)	RL (mg/dm^2)	Test Result (mg/dm^2)
			1
Overall Migration - 3% Acetic acid (70℃, 2h)	10	1	N.D.
Overall Migration - 50% Ethanol (70℃, 2h)	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. 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.

7.3. Peroxide Value

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

Material No.	Limit	Test Result	Conclusion
1	Negative	Negative	PASS

7.4. 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.

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7.5. 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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8. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

Material No.	5											
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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9. 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.	5
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: 37 ℃(after the short period)

43 ℃ (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].

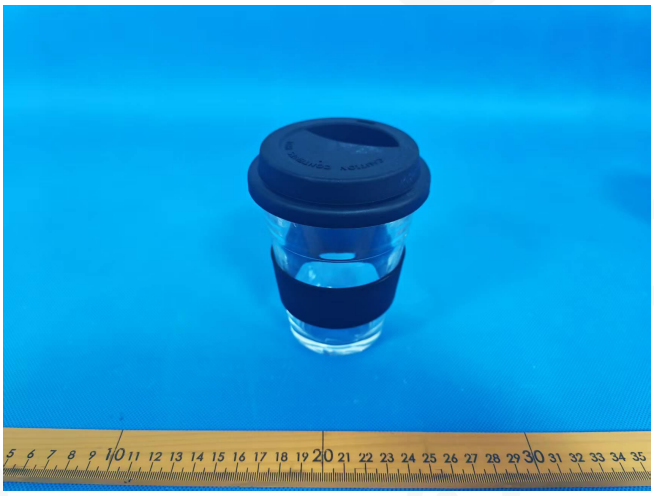
2.2 As temperatures measured after the long periodof heating vary significantly depending on the microwave oven used for testing,no temperature limit values apart from those for handles are given

TEST REPORT

Test Material(s) List

Material No.	Description	Location	Material
1	Black silicone	Tumbler lid	Silicone
2	Transparent glass	Tumbler body	Glass
3	White silicone	Tumbler lid	/
4	Blue silicone	Tumbler lid	/
5	Whole product-Black	/	/

Photo Appendix



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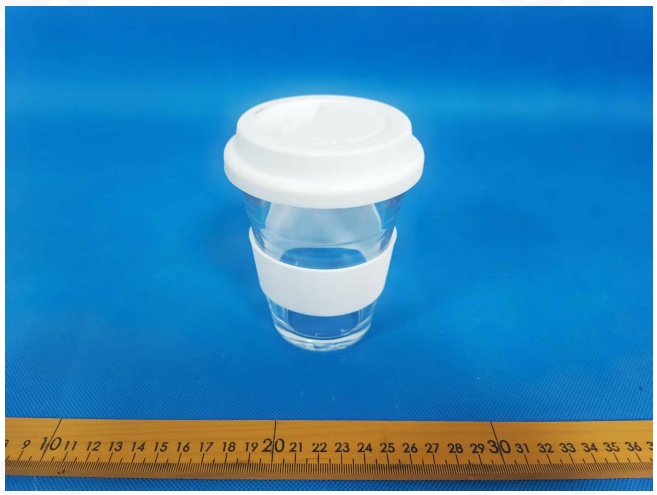
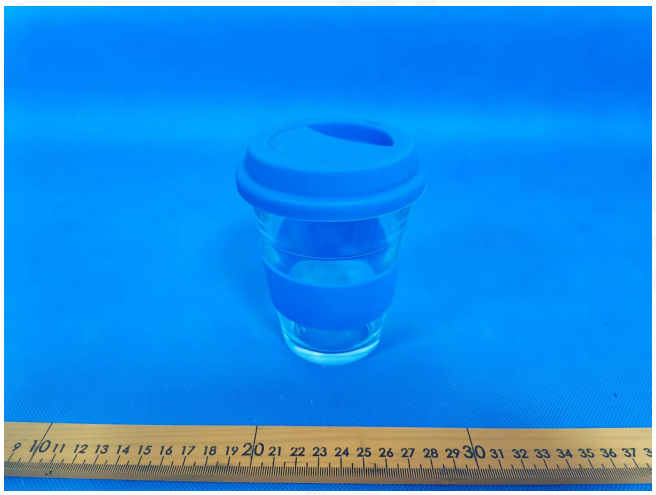
Additional Photo Appendix





★★★★★End of Report★★★★★

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