

# Test Report

**Report No.:** CTT190960077EN

**Date:** Oct. 17, 2019

Page 1 of 14

**Applicant:** MID OCEAN BRANDS B.V.

**Address:** 7/F,KINGS TOWER,111 KING LAM STREET,CHEUNG SHA WAN,KOWLOON,HONG KONG.

**Sample Received Date:** Oct. 11, 2019

**Completed Date:** Oct. 16, 2019

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** MO8314,MO5608,MO7248,MO8125,MO9421,MO9448,KC5610

**Sample Model No.:** MO8314,MO5608,MO7248,MO8125,MO9421,MO9448,KC5610

**Exported to:** Europe

**Country of Origin:** China

**Test Result(s):** Please refer to next page(s).

**Test Requested and Conclusion(s):** Please refer to next page(s).

Signed for and on Behalf of CTT



Yurong Zhong / Technical Director  
Consumer Testing Technology Co., Ltd.

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 2 of 14

**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1.	Submitted sample	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 - Lead content	PASS
2.	Submitted sample	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & COMMISSION REGULATION (EU) No 494/2011 - Total cadmium (Cd)	PASS
3.	Submitted sample	Annex XVII items 51 & 52 of the REACH Regulation (EC) No 1907/2006 - Phthalates	PASS
4.	Submitted sample	Client's requirements on Phthalates(DIBP)	PASS
5.	Submitted sample	Client's requirements on Bisphenol A (BPA)	PASS
6.	Submitted sample	REGULATION (EC) No 1935/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on materials and CM/Res(2013)9 on metals and alloys used in food contact materials and articles. Specific Release of Heavy Metals	PASS
7.	Submitted sample	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal - Specific migration of Acrylonitrile	PASS
8.	Submitted sample	Framework Resolution ResAP(2004)5 on silicones used for food contact applications. - Overall migration	PASS

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 3 of 14

**Test Result(s):**

REACH - Lead content

Method:

Metal - CPSC-CH-E1001-08.3

Nonmetal - CPSC-CH-E1002-08.3

Surface coating - CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) .

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+3	500	15	PASS
2+5	500	N.D.	PASS
4	500	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL (Reporting Limit) = 10 mg/kg.
  4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Total cadmium (Cd)

Method:

Metal - With reference to CPSC-CH-E1001-08.3

Nonmetal - With reference to CPSC-CH-E1002-08.3

Surface coating - With reference to CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) .

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
2+5	100	N.D.	PASS
4	100	N.D.	PASS
6+7	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (<RL).
  3. RL (Reporting Limit) = 2 mg/kg.
  4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.



# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 4 of 14

**Test Result(s):**

Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	
				No.(2+5)	No.(4+6+7)
Dibutyl phthalate(DBP)	84-74-2	50	--	N.D.	N.D.
Butyl benzyl phthalate(BBP)	85-68-7	50	--	N.D.	N.D.
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	50	--	N.D.	N.D.
<b>SUM (DBP+BBP+DEHP)</b>	--	--	1000	N.D.	N.D.
Di-n-octyl phthalate(DNOP)	117-84-0	50	--	N.D.	N.D.
Diisodecyl phthalate(DIDP)	26761-40-0 68515-49-1	100	--	N.D.	N.D.
Diisononyl phthalate(DINP)	28553-12-0 68515-48-0	100	--	N.D.	N.D.
<b>SUM (DNOP+DIDP+DINP)</b>	--	--	1000	N.D.	N.D.
<b>Conclusion</b>				PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

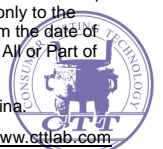
Phthalates content

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substances	CAS No.	RL (mg/kg)	Client's Limit (mg/kg)	Result (mg/kg)	
				No.(2+5)	No.(4+6+7)
Diisobutyl phthalate(DIBP)	84-69-5	50	1000	N.D.	N.D.
<b>Conclusion</b>				PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.
  4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 5 of 14

possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

**Test Result(s):**

Bisphenol A (BPA)

Method: With reference to US EPA 3540C:1996, analyzed by High Performance Liquid Chromatograph (HPLC-DAD).

Material No.	Client's Limit (mg/kg)	Result (mg/kg)	Conclusion
2	0.05	N.D.	PASS
4	0.05	N.D.	PASS
5	0.05	N.D.	PASS
6	0.05	N.D.	PASS
7	0.05	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL(Reporting Limit) =0.05mg/kg.

# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 6 of 14

**Test Result(s):**

Specific Release of Heavy Metals

Method: With reference to CM/Res(2013)9, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
3	Silvery white metal	Linner(304)

Elements	SRL (mg/kg)		Result (mg/kg)		Conclusion
	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	No.3		
			1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	
Tin(Sn)	700	100	< 2	< 1	PASS
Copper(Cu)	28	4	< 2	<1	
Iron(Fe)	280	40	< 2	< 1	
Manganese(Mn)	12.6	1.8	< 0.2	< 0.1	
Zinc(Zn)	35	5	< 2	< 1	
Aluminum(Al)	35	5	< 2	<1	
Barium(Ba)	8.4	1.2	< 0.2	< 0.1	
Titanium(Ti)	--	--	< 2	< 1	
Magnesium(Mg)	--	--	< 2	< 1	
Chromium(Cr)	1.750	0.250	< 0.100	< 0.050	
Nickel(Ni)	0.98	0.14	< 0.10	< 0.05	
Lithium(Li)	0.336	0.048	< 0.020	< 0.010	
Beryllium(Be)	0.07	0.01	< 0.002	< 0.001	
Vanadium(V)	0.07	0.01	< 0.002	< 0.001	
Cobalt(Co)	0.14	0.02	< 0.002	< 0.001	
Molybdenum(Mo)	0.84	0.12	< 0.02	< 0.01	
Silver(Ag)	0.56	0.08	< 0.02	< 0.01	
Antimony(Sb)	0.28	0.04	< 0.02	< 0.01	
Lead(Pb)	0.07	0.01	< 0.002	< 0.001	
Arsenic(As)	0.014	0.002	< 0.002	< 0.001	
Cadmium(Cd)	0.035	0.005	< 0.002	< 0.001	
Mercury(Hg)	0.021	0.003	< 0.002	< 0.001	
Thallium(Tl)	0.0007	0.0001	< 0.0002	< 0.0001	

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 7 of 14

- Note:**
1. “-” = No requirement.
  2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
  3. SRL = Specific Release Limit.
  4. Test Condition: 0.5% Citric acid at 70°C for 2 hours.

**Test Result(s):**

Overall migration- No.10/2011

Method: With reference to EN1186-1:2002&EN1186-9:2002

Material No.	Description	Location
2	Black plastic	Cup lid lining/inner cap/kick-off circle/basal plug(PP)

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
2	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

- Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

Overall migration- No.10/2011

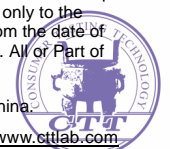
Method: With reference to EN1186-1:2002&EN1186-3:2002

Material No.	Description	Location
5	White plastic	Button/inner ring(ABS)
6	Beige plastic	Button interlayer(ABS)
7	Transparent plastic	Button interlayer(PP)

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
5	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
6	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
7	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

- Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 8 of 14

**Test Result(s):**

Soluble heavy metal

Method: With reference to BS EN13130-1:2004, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Description	Location
2	Black plastic	Cup lid lining/inner cap/kick-off circle/basalplug(PP)
5	White plastic	Button/inner ring(ABS)
6	Beige plastic	Button interlayer(ABS)
7	Transparent plastic	Button interlayer(PP)

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion	
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02		
Material No.	Result (mg/kg)									Conclusion	
2	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01		PASS
5	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01		PASS
6	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01		PASS
7	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	PASS	

- Note:** 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.  
 2. Test condition: 3% Acetic acid(w/v) at 70°C for 2 hours.

Specific migration of Acrylonitrile<sup>s</sup>

Method: With reference to BS EN 13130-3:2004, analyzed by Headspace Gas Chromatograph(HS-GC).

Material No.	Description	Location
5	White plastic	Button/inner ring(ABS)
6	Beige plastic	Button interlayer(ABS)

Material No.	Test Condition	Limit(mg/kg)	Result(mg/kg)	Conclusion
5	3% Acetic acid(w/v), 100°C for 1 hour	0.01	<0.01	PASS
6	3% Acetic acid(w/v), 100°C for 1 hour	0.01	<0.01	PASS

- Note:** 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.





# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 9 of 14

**Test Result(s):**

Overall migration- (2004)5

Method: With reference to EN1186-1:2002&EN1186-3:2002

Material No.	Description	Location
4	Transparent silicon	Seal ring

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
4	3% Acetic acid(w/v), 70°C, 2 hours	10	<3	PASS
	50% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

**Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

**Test Material List**

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Silvery metal with gun electrophoretic paint	Cup lid substrate/cup body substrate(201)
2	Black plastic	Cup lid lining/inner cap/kick-off circle/basal plug(PP)
3	Silvery white metal	Linner(304)
4	Transparent silicon	Seal ring
5	White plastic	Button/ inner ring(ABS)
6*	Beige plastic	Button interlayer(ABS)
7*	Transparent plastic	Button interlayer(PP)

**Note:** The testing material marked "\*" are taken from components/raw materials.



# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 10 of 14

**Photo of Testing Sample:**



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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 11 of 14

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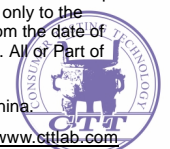
Date: Oct. 17, 2019

Page 12 of 14

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# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 13 of 14

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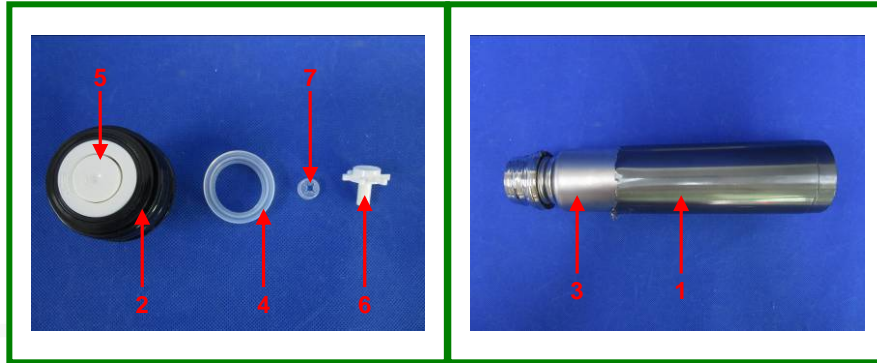
# Test Report

Report No.: CTT190960077EN

Date: Oct. 17, 2019

Page 14 of 14

**Photo of Testing Sample:**



\*\*\*End of Report\*\*\*

