中国认可
国际互认
检测
TESTING
CNAS L6478

TEST REPORT

Reference No.	:	WTF19F07043797X1C
Applicant	:	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:	104438
Sample Name	:	Lunch box in PP
Model No.	:	MO9759, MO8517
Test Requested	:	In accordance with Council of Europe Resolution AP(2004)5, (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752, (EU) 2018/213, (EU) 2019/37 and Regulation (EC) No 1935/2004.
Test Conclusion	:	**Pass** (Please refer to next pages for details)
Date of Receipt sample	:	2019-07-01
Date of Test	:	2019-07-01 to 2019-07-23
Date of Issue	:	2019-11-07
Test Result	:	Please refer to next page (s)
Remark	:	1) Selected test(s) as requested by applicant. 2) This report is based on Waltek test report WTF19F07043797C for revising, and replaced report WTF19F07043797C.

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Approved by: Dino Zhang / Lab Manager

Test Results:

1. Overall Migration Test

Food Simulant	Test Condition	Result (mg/kg)	MDL(mg/kg)	Limit (mg/kg)
		No.1		
3% Acetic Acid	20°C for 24 hours	ND	20	60
10% Ethanol	20°C for 24 hours	ND	20	60
95% Ethanol	20°C for 24 hours	35	20	60
Isooctane	20°C for 6 hours	ND	20	60

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002, BS EN 1186-9: 2002 and BS EN1186-14: 2002.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from Council of Europe Resolution AP (2004)5.

Food Simulant	Test Condition	Result (mg/dm^2)	MDL (mg/dm^2)	Limit (mg/dm^2)
		No.2		
3% Acetic Acid	20°C for 24 hours	ND	3	10
10% Ethanol	20°C for 24 hours	ND	3	10
95% Ethanol	20°C for 24 hours	ND	3	10
Isooctane	20°C for 6 hours	ND	3	10

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002, BS EN 1186-9: 2002 and BS EN1186-14: 2002.
2. "mg/dm^2" = milligram per square decimetre
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2019/37.

2. Specific Migration of Bisphenol A

Test Item	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2	No.3	No.4		
Migration of Bisphenol A	ND	ND	ND	ND	0.01	0.05

Note:

1. Test Method: With reference to CEN/TS 13130-13-2005, sample preparation in 3% acetic acid at 20°C for 24 hours, analysis was performed by LC-MS-MS.
2. “mg/kg” = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from regulation (EU) No 10/2011 and its amendments (EU) 2018/213.

3. Bisphenol A Content*

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2		
Bisphenol A	ND	ND	0.1	Not Detected (<0.1mg/kg)

Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by LC-MS-MS.
2. “mg/kg” = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from Law No 2012-1442
6. The testing item marked with ‘*’ does not been accredited by CNAS.

4. Specific Migration of heavy metal (Nickel, Aluminium, Barium, Cobalt, Copper, Iron, Lithium, Manganese, Zinc)

Test Items	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.2		
Specific migration of Nickel	ND	0.01	0.02
Specific migration of Aluminium	ND	0.1	1
Specific migration of Barium	ND	0.1	1
Specific migration of Cobalt	ND	0.01	0.05
Specific migration of Copper	ND	0.1	5
Specific migration of Iron	ND	0.1	48
Specific migration of Lithium	ND	0.01	0.6
Specific migration of Manganese	ND	0.01	0.6
Specific migration of Zinc	ND	0.1	5

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 20°C for 24 hours, analysis was performed by ICP-OES.
2. “mg/kg” = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU)2017/752.

5. Specific Migration of Primary Aromatic Amines

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.2		
Migration of Primary aromatic amines	ND	0.01	Not Detected (<0.01mg/kg)

Note:

1. Test Method: With reference to § 64 LFGB L No. 00.00-6, analysis was performed by UV-visible Spectrometer.
2. Test Condition and simulant: 3% acetic acid at 20°C for 24 hours.
3. “mg/kg” = milligram per kilogram of foodstuff in contact with
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU) 2017/752.

6. Council of Europe Resolution CM/Res(2013)9-Specific Migration of Heavy Metal

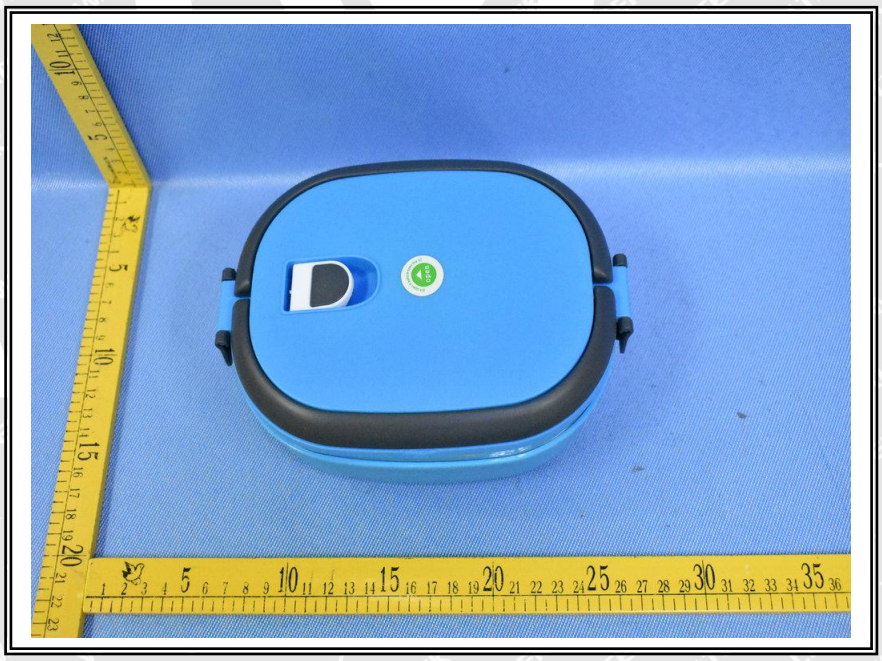
Test Items	1st+2nd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.5		
Aluminium (Al)	ND	0.2	35
Antimony (Sb)	ND	0.02	0.28
Chromium (Cr)	0.11	0.04	1.75
Cobalt (Co)	ND	0.02	0.14
Copper (Cu)	ND	0.2	28
Iron (Fe)	3.0	0.4	280
Manganese (Mn)	ND	0.2	12.6
Molybdenum (Mo)	ND	0.02	0.84
Nickel (Ni)	0.05	0.02	0.98
Silver (Ag)	ND	0.02	0.56
Tin (Sn)	ND	0.2	700
Vanadium (V)	ND	0.01	0.07
Zinc (Zn)	ND	0.2	35
Arsenic (As)	ND	0.002	0.014
Barium (Ba)	ND	0.2	8.4
Beryllium (Be)	ND	0.01	0.07
Cadmium (Cd)	ND	0.002	0.035
Lead (Pb)	0.02	0.01	0.07
Lithium (Li)	ND	0.01	0.336
Mercury (Hg)	ND	0.002	0.021
Thallium (Tl)	ND	0.0002	0.0007
Magnesium (Mg)	ND	0.2	--
Titanium (Ti)	ND	0.02	--

Test Items	3rd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.5		
Aluminium (Al)	ND	0.1	5
Antimony (Sb)	ND	0.01	0.04
Chromium (Cr)	ND	0.02	0.25
Cobalt (Co)	ND	0.01	0.02
Copper (Cu)	ND	0.1	4
Iron (Fe)	0.3	0.2	40
Manganese (Mn)	ND	0.1	1.8
Molybdenum (Mo)	ND	0.01	0.12
Nickel (Ni)	ND	0.01	0.14
Silver (Ag)	ND	0.01	0.08
Tin (Sn)	ND	0.1	100
Vanadium (V)	ND	0.005	0.01
Zinc (Zn)	ND	0.1	5
Arsenic (As)	ND	0.001	0.002
Barium (Ba)	ND	0.1	1.2
Beryllium (Be)	ND	0.005	0.01
Cadmium (Cd)	ND	0.001	0.005
Lead (Pb)	ND	0.005	0.01
Lithium (Li)	ND	0.005	0.048
Mercury (Hg)	ND	0.001	0.003
Thallium (Tl)	ND	0.0001	0.0001
Magnesium (Mg)	ND	0.1	--
Titanium (Ti)	ND	0.01	--

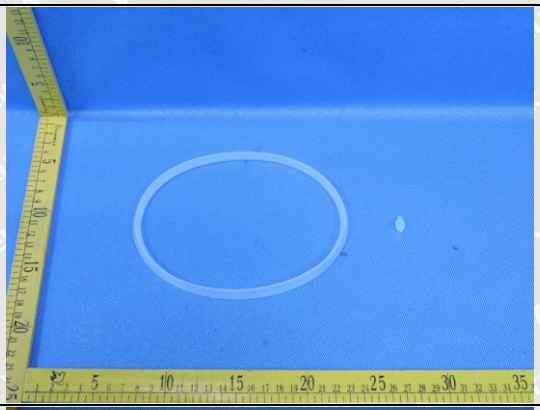
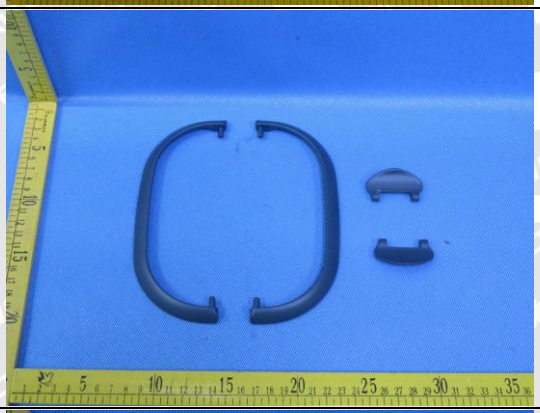
Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 20°C for 24 hours.
3. “mg/kg” = milligram per kilogram of foodstuff in contact with
4. MDL = Method Detection Limit
5. ND = Not Detected, less than MDL
6. “--” = Not regulated
7. The specification was quoted from Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.

Sample Photo：



Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Translucent silicone rubber	Silicone rubber
2		White plastic	PP
3		Black plastic	PP
4		White plastic	PP

No.	Photo of testing part	Parts Description	Client Claimed Material
5		Silvery metal	Stainless steel

====== End of Report ======