



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** ..... : WTF19F06040204C

**Applicant** ..... : Mid Ocean Brands B.V.

**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer** ..... : 114276

**Sample Name** ..... : Double wall mug

**Model No.** ..... : MO9120

**Test Requested** ..... : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) Section 30 & 31, BfR recommendation, Council of Europe Resolution AP(2004)5, Council of Europe Resolution AP(2004)4 and Regulation (EC) No 1935/2004.

**Test Conclusion** ..... : **Pass** (Please refer to next pages for details)

**Date of Receipt sample** .... : 2019-06-19

**Date of Test** ..... : 2019-06-19 to 2019-06-28

**Date of Issue** ..... : 2019-06-28

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

**Remark** ..... : Selected test(s) as requested by applicant.

**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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**Test Results:****1. Overall Migration Test**

Food Simulant	Test Condition	Result (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )	Limit (mg/dm <sup>2</sup> )
		No.1		
3% Acetic Acid	70°C for 4 hours	ND	3	10
10% Ethanol	70°C for 4 hours	ND	3	10
50% Ethanol	70°C for 4 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<sup>2</sup>" = 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.

Food Simulant	Test Condition	Result (mg/kg)	MDL(mg/kg)	Limit (mg/kg)
		No.2		
3% Acetic Acid	70°C for 4 hours	ND	20	60
10% Ethanol	70°C for 4 hours	ND	20	60
50% Ethanol	70°C for 4 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/kg)	MDL(mg/kg)	Limit (mg/kg)
		No.4		
3% Acetic Acid	70°C for 4 hours	ND	20	60
10% Ethanol	70°C for 4 hours	ND	20	60
50% Ethanol	70°C for 4 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)4.

**2. 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.1		
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 70°C for 4 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.



**3. Specific Migration of Primary Aromatic Amines**

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.1	No.4		
Migration of Primary aromatic amines	ND	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 70°C for 4 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.

**4. Bisphenol A Content\***

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	No.1	No.3	No.4		
Bisphenol A	ND	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.

**5. 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 70°C for 4 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.

**6. Migration of N-Nitrosamine and N-Nitrosatable Substances\***

Test Items	Result (mg/kg)	
	No.4	
	N-nitrosamines	N-nitrosatable substances
N-nitrosodimethylamine (NDMA)	<0.01	<0.1
N-nitrosodiethylamine (MDEA)	<0.01	<0.1
N-nitrosodipropylamine (NDPA)	<0.01	<0.1
N-nitrosodibutylamine (NDBA)	<0.01	<0.1
N-nitrosopiperidine (NPIP)	<0.01	<0.1
N-nitrosopyrrolidine (NPYR)	<0.01	<0.1
N-nitrosomorpholine (NMOR)	<0.01	<0.1
N-nitrosomethylphenylamine (NMPHA)	<0.01	<0.1
N-nitrosoethylphenylamine (NEPhA)	<0.01	<0.1
N-nitrosodibenzylamine (NDBzA)	<0.01	<0.1
N-nitroso-n, n-di-(7-methyloctyloctyl) amine (NDINA)	<0.01	<0.1
Sum of above N-nitrosamines and N-nitrosatable substances	<0.01	<0.1
Limit	0.01	0.1

**Note:**

1. Test method: With reference to EN 12868:2017, extraction with 3% acetic acid at 70°C for 4 hours, followed by GC-MS analysis.
2. "mg/kg" = Milligrams per kilogram
3. "<" = less than
4. The specification was quoted from Council of Europe Resolution AP(2004)4.
5. The testing item marked with "\*" does not been accredited by CNAS.









**Sample Photo:**



**Photograph of parts tested:**

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Black plastic	PP



No.	Photo of testing part	Parts Description	Client Claimed Material
2		Black plastic	EVA
3		Transparent silicone rubber	Silicone rubber
4		Black rubber	TPR

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