



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Report No...... : WTF23F04092339T

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 Stainless Steel mug 300 ml, PP inner

Sample Model..... : MO9120

Test Requested..... : In accordance with Regulation (EU) No 10/2011 with amendments, Council of Europe Resolution AP(2004)4, Council of Europe Resolution AP(2004)5, French Décret n°2007-766 and Regulation (EC) No 1935/2004.

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

Date of Receipt sample..... : 2023-04-27

Testing period..... : 2023-04-27 to 2023-05-09

Date of Issue..... : 2023-05-09

Test Result..... : Refer to next page (s)

Prepared By:

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Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Jessise Liu

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Test Results:

1. Overall Migration Test

Food Simulant	Test Condition	Result (mg/dm ²)			LOQ (mg/dm ²)	Limit (mg/dm ²)
		No.1				
		1 st Migration	2 nd Migration	3 rd Migration		
3% Acetic Acid	40°C for 6 hours	ND	ND	ND	3.0	3 rd Migration:10, 3 rd <2 nd <1 st
10% Ethanol	40°C for 6 hours	ND	ND	ND	3.0	3 rd Migration:10, 3 rd <2 nd <1 st

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2022
2. "mg/dm²" = milligram per square decimetre
3. "°C" = Celsius degree
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752, (EU)2019/37 and (EU) 2020/1245.

Food Simulant	Test Condition	Result (mg/kg)	LOQ(mg/kg)	Limit (mg/kg)
		No.2		
3% Acetic Acid	40°C for 6 hours	ND	20	60
10% Ethanol	40°C for 6 hours	ND	20	60

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2022
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. "°C" = Celsius degree
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from Council of Europe Resolution AP (2004)4.



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Food Simulant	Test Condition	Result (mg/kg)	LOQ(mg/kg)	Limit (mg/kg)
		No.3		
3% Acetic Acid	40°C for 6 hours	ND	20	60
10% Ethanol	40°C for 6 hours	ND	20	60

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2022
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. "°C" = Celsius degree
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from Council of Europe Resolution AP (2004)5 and Council of Europe Resolution AP(2004)5 and French Arrêté du 25 novembre 1992 for Silicone Elastomers.

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2. Specific Migration of heavy metal

Test Items	Result(mg/kg)			LOQ (mg/kg)	Limit (mg/kg)	
	No.1					
	1 st Migration	2 nd Migration	3 rd Migration			
Nickel (Ni)	ND	ND	ND	0.01	3 rd Migration:0.02, 3 rd <2 nd <1 st	
Aluminium (Al)	ND	ND	ND	0.1	3 rd Migration:1 3 rd <2 nd <1 st	
Barium (Ba)	ND	ND	ND	0.1	3 rd Migration:1 3 rd <2 nd <1 st	
Cobalt (Co)	ND	ND	ND	0.01	3 rd Migration:0.05 3 rd <2 nd <1 st	
Copper (Cu)	ND	ND	ND	0.1	3 rd Migration:5 3 rd <2 nd <1 st	
Iron (Fe)	ND	ND	ND	0.1	3 rd Migration:48 3 rd <2 nd <1 st	
Lithium (Li)	ND	ND	ND	0.01	3 rd Migration:0.6 3 rd <2 nd <1 st	
Manganese (Mn)	ND	ND	ND	0.01	3 rd Migration:0.6 3 rd <2 nd <1 st	
Zinc (Zn)	ND	ND	ND	0.1	3 rd Migration:5 3 rd <2 nd <1 st	
Antimony (Sb)	ND	ND	ND	0.01	3 rd Migration:0.04 3 rd <2 nd <1 st	
Arsenic (As)	ND	ND	ND	0.01	Not detected	
Cadmium (Cd)	ND	ND	ND	0.002	Not detected	
Chromium (Cr)	ND	ND	ND	0.01	Not detected	
Mercury (Hg)	ND	ND	ND	0.01	Not detected	
Lead (Pb)	ND	ND	ND	0.01	Not detected	
Europeum (Eu)	ND	ND	ND	0.02	3 rd Migration:0.05 3 rd <2 nd <1 st	Sum< 0.05
Gadolinium (Gd)	ND	ND	ND	0.02	3 rd Migration:0.05 3 rd <2 nd <1 st	
Lanthanum (La)	ND	ND	ND	0.02	3 rd Migration:0.05 3 rd <2 nd <1 st	
Terbium (Tb)	ND	ND	ND	0.02	3 rd Migration:0.05 3 rd <2 nd <1 st	



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Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 6 hours, analysis was performed by ICP-MS.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. ND = Not Detected or lower than limit of quantitation
4. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

3. Specific Migration of Primary Aromatic Amines

Test Item	Result (mg/kg)			LOQ (mg/kg)	Limit (mg/kg)
	No.1				
	1 st Migration	2 nd Migration	3 rd Migration		
Migration of Primary aromatic amines	ND	ND	ND	0.01	Not detected

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 40°C for 6 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

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

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 40°C for 6 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from (EU) No 10/2011 and its amendment (EU) 2016/1416 and (EU)2017/752.



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4. Specific Migration of Primary Aromatic Amines (single substance)*

Test Items	CAS No.	Result(mg/kg)			LOQ (mg/kg)	Limit (mg/kg)
		No.1				
		1 st Migration	2 nd Migration	3 rd Migration		
2-methoxyaniline	90-04-0	ND	ND	ND	0.002	Not Detected
4,4'-Diaminobiphenyl	92-87-5	ND	ND	ND	0.002	Not Detected
4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	ND	ND	ND	0.002	Not Detected
4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	0.002	Not Detected
4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	Not Detected
4-chloroaniline	106-47-8	ND	ND	ND	0.002	Not Detected
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	Not Detected
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	Not Detected
2-Methoxy-5-methylaniline	120-71-8	ND	ND	ND	0.002	Not Detected
2,4,5 – Trimethylaniline	137-17-7	ND	ND	ND	0.002	Not Detected
4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	Not Detected
4-aminoazobenzene	60-09-3	ND	ND	ND	0.002	Not Detected
2,4-diaminoanisol	615-05-4	ND	ND	ND	0.002	Not Detected
4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0	ND	ND	ND	0.002	Not Detected
2-Naphthylamine	91-59-8	ND	ND	ND	0.002	Not Detected
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	Not Detected
4-Aminobiphenyl	92-67-1	ND	ND	ND	0.002	Not Detected
2-methylaniline	95-53-4	ND	ND	ND	0.002	Not Detected
4-chloro-o-Toluidine	95-69-2	ND	ND	ND	0.002	Not Detected
2,4-Toluyldiamine	95-80-7	ND	ND	ND	0.002	Not Detected
2,4-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	Not Detected
2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	0.002	Not Detected
2,4-Xylidin	95-68-1	ND	ND	ND	0.002	Not Detected
2,6-Xylidin	87-62-7	ND	ND	ND	0.002	Not Detected
1, 3 - phenylene diamine	108-45-2	ND	ND	ND	0.002	Not Detected

Note:

1. Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS-MS.
2. Test Condition and simulant: 3% acetic acid at 40°C for 6 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendment (EU) 2020/1245.
6. The testing item marked with "*" does not been accredited by CNAS.



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5. Migration of N-Nitrosamine and N-Nitrosatable Substances*

Test Items	Result (mg/kg)	
	No.2	
	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 40°C for 6 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.



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6. Peroxide Value Test*

Test Item	Result	Limit
	No.3	
Peroxide Value	Absent	Absent

Note:

1. Test method: With reference to French pharmacopoeia Xth edition.
2. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.
3. The testing item marked with '*' does not been accredited by CNAS.

7. Volatile Organic Compounds

Test Item	Test Condition	Result (%)	LOQ (%)	Limit (%)
		No.3		
Volatile Organic compounds	200°C for 4 hours	0.39	0.05	0.5

Note:

1. Test method: With reference to French Arrêté du 25 novembre 1992 Annex III for silicone Elastomers.
2. "%" = percentage by weight
3. LOQ = Limit of quantitation
4. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.

8. Specific Migration of Organotin (as Tin)

Food Simulant	Test Condition	Result (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
		No.3		
3% acetic acid	40°C for 6 hours	ND	0.01	0.1

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-MS.
2. "mg/kg" = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected, less than LOQ
5. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.



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9. Bisphenol A Content*

Test Item	Result (mg/kg)			LOQ (mg/kg)	Limit (mg/kg)
	No.1	No.2	No.3		
Bisphenol A	ND	ND	ND	0.1	Not Detected

Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by GC-MS.
2. "mg/kg" = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from Law No 2012-1442.
6. The testing item marked with '*' does not been accredited by CNAS.




Sample Photo:





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Photograph of parts tested:

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

Remarks:

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