



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF21F06060522F

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 111587

Sample Name : Lunch box

Model No. : MO6286, MO6287

Test Requested : In accordance with Regulation (EU) No 10/2011 with amendments, Council of Europe Resolution AP(2004)5 and Regulation (EC) No 1935/2004.

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

Date of Receipt sample : 2021-06-22

Date of Test : 2021-06-22 to 2021-07-01

Date of Issue : 2021-07-01

Test Result : Please refer to next page (s)

Note : Selected test(s) as requested by applicant

Remarks:

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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	100°C for 6 hours	ND	ND	ND	3	10
10% Ethanol	100°C for 6 hours	ND	ND	ND	3	10
95% Ethanol	60°C for 6 hours	ND	ND	ND	3	10
Isooctane	60°C for 4 hours	ND	ND	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 EN 1186-14: 2002.
2. "mg/dm²" = milligram per square decimetre
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 (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	100°C for 6 hours	ND	20	60
10% Ethanol	100°C for 6 hours	ND	20	60
95% Ethanol	60°C for 6 hours	ND	20	60
Isooctane	60°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 EN 1186-14: 2002.
2. "mg/kg" = milligram per kilogram
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.

**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		
Specific migration of Nickel	ND	ND	ND	0.01	0.02
Specific migration of Aluminium	ND	ND	ND	0.1	1
Specific migration of Barium	ND	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	ND	0.1	5
Specific migration of Iron	ND	ND	ND	0.1	48
Specific migration of Lithium	ND	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	ND	0.01	0.6
Specific migration of Zinc	ND	ND	ND	0.1	5
Specific migration of Antimony	ND	ND	ND	0.01	0.04
Specific migration of Arsenic	ND	ND	ND	0.01	Not detected (<0.01)
Specific migration of Cadmium	ND	ND	ND	0.002	Not detected (<0.002)
Specific migration of Chromium	ND	ND	ND	0.01	Not detected (<0.01)
Specific migration of Mercury	ND	ND	ND	0.01	Not detected (<0.01)
Specific migration of Lead	ND	ND	ND	0.01	Not detected (<0.01)
Specific migration of Europium	ND	ND	ND	0.02	Sum<0.05
Specific migration of Gadolinium	ND	ND	ND	0.02	
Specific migration of Lanthanum	ND	ND	ND	0.02	
Specific migration of Terbium	ND	ND	ND	0.02	



Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 0.5 hour, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. LOQ = Limit of quantitation
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.

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	0.002	<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 40°C for 0.5 hour.
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 amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

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

Test Items	CAS No.	Result(mg/kg)		LOQ (mg/kg)	Limit (mg/kg)
		1 st Migration			
		No.1			
2-methoxyaniline	90-04-0	ND		0.002	--
4,4'-Diaminobiphenyl	92-87-5	ND		0.002	--
4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	ND		0.002	--
4,4'-Diaminodiphenylmethane	101-77-9	ND		0.002	--
4,4'-Oxydianiline	101-80-4	ND		0.002	--
4-chloroaniline	106-47-8	ND		0.002	--
3,3'-Dimethoxybenzidine	119-90-4	ND		0.002	--
3,3'-Dimethylbenzidine	119-93-7	ND		0.002	--
2-Methoxy-5-methylaniline	120-71-8	ND		0.002	--
2,4,5 – Trimethylaniline	137-17-7	ND		0.002	--
4,4'-Thiodianiline	139-65-1	ND		0.002	--
4-aminoazobenzene	60-09-3	ND		0.002	--
2,4-diaminoanisol	615-05-4	ND		0.002	--
4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0	ND		0.002	--
2-Naphthylamine	91-59-8	ND		0.002	--
3,3'-Dichlorobenzidine	91-94-1	ND		0.002	--
4-Aminobiphenyl	92-67-1	ND		0.002	--
2-methylaniline	95-53-4	ND		0.002	--
4-chloro-o-Toluidine	95-69-2	ND		0.002	--
2,4-Toluylendiamine	95-80-7	ND		0.002	--
2,4-Aminoazotoluene	97-56-3	ND		0.002	--
2-Amino-4-nitrotoluene	99-55-8	ND		0.002	--
2,4-Xylidin	95-68-1	ND		0.002	--
2,6-Xylidin	87-62-7	ND		0.002	--
1, 3 - phenylene diamine	108-45-2	ND		0.002	--



Test Items	CAS No.	Result(mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
		2 nd Migration		
		No.1		
2-methoxyaniline	90-04-0	ND	0.002	--
4,4'-Diaminobiphenyl	92-87-5	ND	0.002	--
4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	ND	0.002	--
4,4'-Diaminodiphenylmethane	101-77-9	ND	0.002	--
4,4'-Oxydianiline	101-80-4	ND	0.002	--
4-chloroaniline	106-47-8	ND	0.002	--
3,3'-Dimethoxybenzidine	119-90-4	ND	0.002	--
3,3'-Dimethylbenzidine	119-93-7	ND	0.002	--
2-Methoxy-5-methylaniline	120-71-8	ND	0.002	--
2,4,5 – Trimethylaniline	137-17-7	ND	0.002	--
4,4'-Thiodianiline	139-65-1	ND	0.002	--
4-aminoazobenzene	60-09-3	ND	0.002	--
2,4-diaminoanisol	615-05-4	ND	0.002	--
4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0	ND	0.002	--
2-Naphthylamine	91-59-8	ND	0.002	--
3,3'-Dichlorobenzidine	91-94-1	ND	0.002	--
4-Aminobiphenyl	92-67-1	ND	0.002	--
2-methylaniline	95-53-4	ND	0.002	--
4-chloro-o-Toluidine	95-69-2	ND	0.002	--
2,4-Toluylendiamine	95-80-7	ND	0.002	--
2,4-Aminoazotoluene	97-56-3	ND	0.002	--
2-Amino-4-nitrotoluene	99-55-8	ND	0.002	--
2,4-Xylidin	95-68-1	ND	0.002	--
2,6-Xylidin	87-62-7	ND	0.002	--
1, 3 - phenylene diamine	108-45-2	ND	0.002	--



Test Items	CAS No.	Result(mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
		3 rd Migration		
		No.1		
2-methoxyaniline	90-04-0	ND	0.002	ND
4,4'-Diaminobiphenyl	92-87-5	ND	0.002	ND
4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	ND	0.002	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND	0.002	ND
4,4'-Oxydianiline	101-80-4	ND	0.002	ND
4-chloroaniline	106-47-8	ND	0.002	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	0.002	ND
3,3'-Dimethylbenzidine	119-93-7	ND	0.002	ND
2-Methoxy-5-methylaniline	120-71-8	ND	0.002	ND
2,4,5 – Trimethylaniline	137-17-7	ND	0.002	ND
4,4'-Thiodianiline	139-65-1	ND	0.002	ND
4-aminoazobenzene	60-09-3	ND	0.002	ND
2,4-diaminoanisol	615-05-4	ND	0.002	ND
4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0	ND	0.002	ND
2-Naphthylamine	91-59-8	ND	0.002	ND
3,3'-Dichlorobenzidine	91-94-1	ND	0.002	ND
4-Aminobiphenyl	92-67-1	ND	0.002	ND
2-methylaniline	95-53-4	ND	0.002	ND
4-chloro-o-Toluidine	95-69-2	ND	0.002	ND
2,4-Toluylendiamine	95-80-7	ND	0.002	ND
2,4-Aminoazotoluene	97-56-3	ND	0.002	ND
2-Amino-4-nitrotoluene	99-55-8	ND	0.002	ND
2,4-Xylidin	95-68-1	ND	0.002	ND
2,6-Xylidin	87-62-7	ND	0.002	ND
1, 3 - phenylene diamine	108-45-2	ND	0.002	ND



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 100°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 amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

5. Bisphenol A Content*

Test Item	Result (mg/kg)		LOQ (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 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.

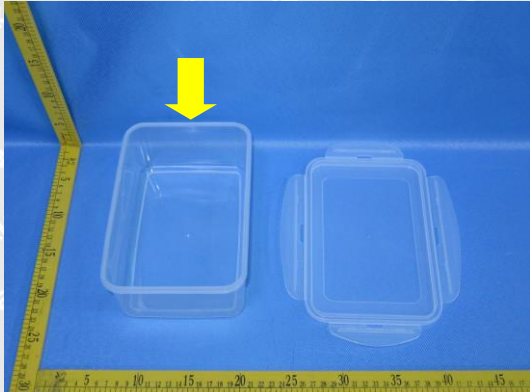
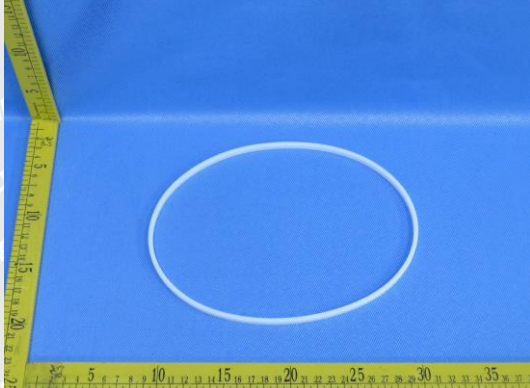
WALTEK

Sample Photo:





Photograph of parts tested:

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

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