



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** ..... : WTF19F02009315C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer** ..... : 113086  
**Sample Name** ..... : Tritan bottle  
**Model No.** ..... : MO8308  
**Test Requested** ..... : In accordance with Regulation (EU) No 10/2011 with amendments (EU) 2016/1416, (EU) 2017/752, (EU)2018/79, (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** .... : 2019-02-25  
**Date of Test** ..... : 2019-02-25 to 2019-03-04  
**Date of Issue** ..... : 2019-03-04  
**Test Result** ..... : Please refer to next page (s)

**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.

**Prepared By:**

**Waltek Services (Foshan) Co., Ltd.**

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by:

*Abby Zhou*

Abby.Zhou / Project Engineer

Approved by:



*Ding Zhang*

Ding.Zhang / Lab Manager

**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	No.2	No.4	No.5		
3% Acetic Acid	70°C for 2 hours	ND	ND	ND	ND	3	10
50% Ethanol	70°C for 2 hours	ND	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 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.3		
3% Acetic Acid	70°C for 2 hours	ND	20	60
50% Ethanol	70°C for 2 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.

**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	No.2	No.4	No.5		
Specific migration of Nickel	ND	ND	ND	ND	0.01	0.02
Specific migration of Aluminium	ND	ND	ND	ND	0.1	1
Specific migration of Barium	ND	ND	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	ND	ND	0.1	5
Specific migration of Iron	ND	ND	ND	ND	0.1	48
Specific migration of Lithium	ND	ND	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	ND	ND	0.01	0.6
Specific migration of Zinc	ND	ND	ND	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 2 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 Acrylonitrile**

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.1		
Migration of Acrylonitrile	ND	0.01	Not Detected (<0.01mg/kg)

Note:

1. Test Method: With reference to EN 13130-3: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by HS-GC-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 (EU) No 10/2011.

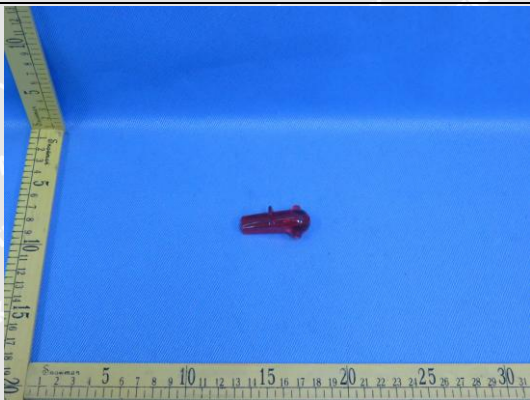

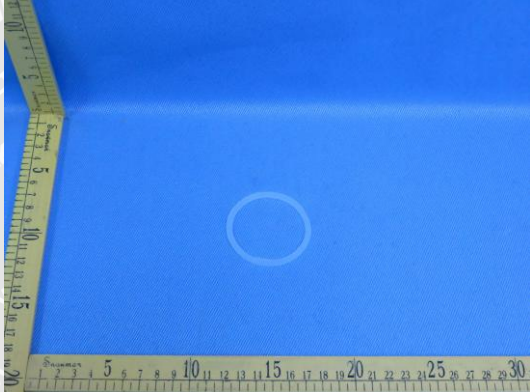




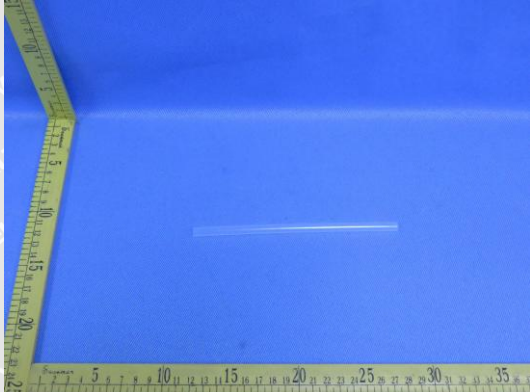

**Sample description:**

- No.1: Red plastic (AS)
- No.2: Black plastic (PP)
- No.3: Translucent silicone rubber (Silicone rubber)
- No.4: Transparent plastic (PE)
- No.5: Red plastic (Tritan)

**Photograph of parts tested:**

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



No.	Photo of testing part	Parts Description	Client Claimed Material
4		Transparent plastic	PE
5		Red plastic	Tritan

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

# WALTEK