



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF17F1091891C
Applicant : Mid Ocean Brands B.V.
Address : Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 113089
Sample Name : Tritan sport bottle
Model No. : MO9227
Test Requested : According to client's requirement, with reference to Regulation (EU) No 10/2011 with amendments and Regulation (EC) No 1935/2004, test the specific items.
Test Conclusion : **Pass** (Please refer to next pages for details)
Date of Receipt sample : 2017-10-09
Date of Test : 2017-10-09 to 2017-10-13
Date of Issue : 2017-10-13
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.

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

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

Food Simulant	Test Condition	Result (mg/dm ²)		MDL (mg/dm ²)	Limit (mg/dm ²)
		No.3	No.4		
3% Acetic Acid	70°C for 2 hours	3	ND	3	10
50% Ethanol	70°C for 2 hours	5	ND	3	10

Note:

1. Test method: With reference to EN 1186-1: 2002 and EN 1186-3: 2002.
2. "mg/dm²" = 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 amendment (EU) 2016/1416 and (EU) 2017/752.

Food Simulant	Test Condition	Result (mg/kg)	MDL(mg/kg)	Limit (mg/kg)
		No.5		
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 EN 1186-1: 2002 and EN 1186-3: 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		
Specific migration of Nickel*	ND	ND	0.01	0.02
Specific migration of Aluminium*	ND	ND	0.1	1
Specific migration of Barium	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	0.1	5
Specific migration of Iron	ND	ND	0.1	48
Specific migration of Lithium	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	0.01	0.6
Specific migration of Zinc	ND	ND	0.1	5



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Test Items	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.3	No.4		
Specific migration of Nickel*	ND	ND	0.01	0.02
Specific migration of Aluminium*	ND	ND	0.1	1
Specific migration of Barium	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	0.1	5
Specific migration of Iron	ND	ND	0.1	48
Specific migration of Lithium	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	0.01	0.6
Specific migration of Zinc	ND	ND	0.1	5

Note:

1. Test Method: With reference to 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 amendment (EU) 2016/1416 and (EU) 2017/752.
6. The testing item marked with '*' does not been accredited by CNAS.

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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)

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	No.3	No.4	No.5		
Bisphenol A	ND	ND	ND	0.1	Not Detected (<0.1mg/kg)

Note:

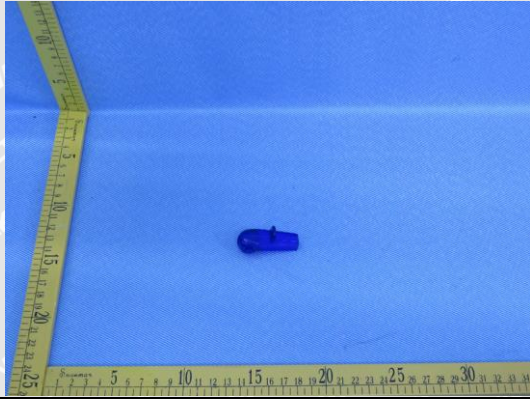
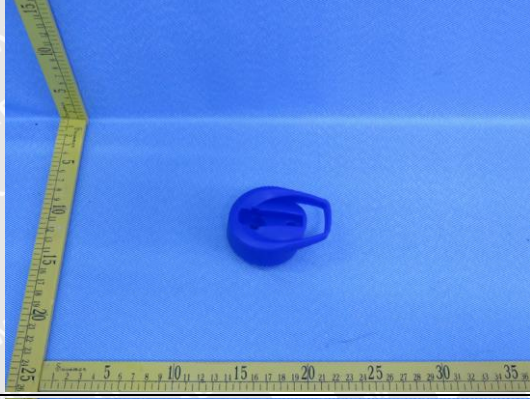
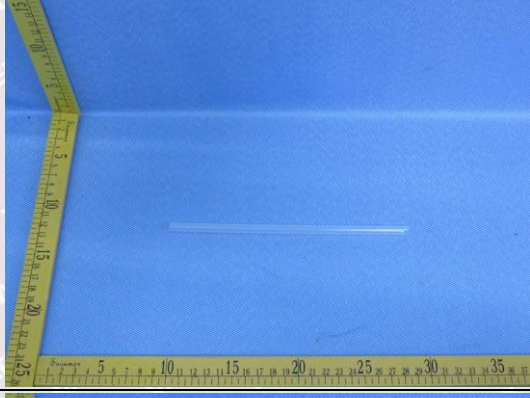

1. Test Method: With reference to US EPA 3540C-1996, analysis was performed by GC-MS.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from Law No 2012-1442.
6. The testing item marked with "*" does not been accredited by CNAS.

Sample Photo:

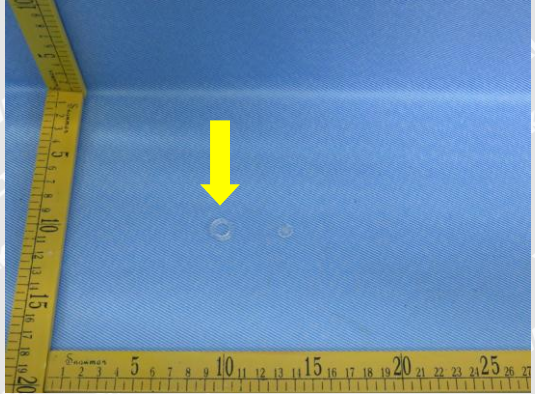




Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Blue plastic	PS
2		Blue plastic	PP
3		Transparent plastic	PE
4		Blue plastic	Tritan



No.	Photo of testing part	Parts Description	Client Claimed Material
5		Translucent silicone rubber	Silicone rubber

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



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