



CTS

CENTRE OF TESTING SERVICE

TEST REPORT

No.: C3190417010-F

DATE: Apr. 26, 2019

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APPLICANT:

Mid Ocean Brands B.V.
Unit 201, 2/F., Laford Centre, 838 Lai Chi Kok Road, Lai Chi Kok, Kowloon, Hong Kong

DESCRIPTION OF SAMPLES:

Sample Name : PP tumbler with silicone lid
 Model No. : MO8078
 Brand Name : /
 Manufacturer Name : Mid Ocean Brands B.V.
 Buyer Name : MID OCEAN HONGKONG LIMITED
 Country of Origin : /
 Country of Destination : Overseas
 Sample Receiving Date : Apr. 18, 2019
 Testing Period : Apr. 18, 2019 to Apr. 26, 2019
 Test Requested : Please refer to next page(s)
 Test Method : Please refer to next page(s)
 Test Results : Please refer to next page(s)

CONCLUSION:

Tested Samples	Test Requested	Conclusion
Tested Component of Submitted Sample	Overall migration test	Pass
	Specific Migration of Bisphenol-A	Pass
	Specific migration of heavy metal	Pass

Note: The tested part of the sample was specified by client.
The test conclusion was given based on the results of tested part.

Authorized by: CTS (Ningbo) Testing Service Technology Co., Ltd.



Jane.Ye

Lab Manager

The measurement results only apply to the submitted samples.
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TEST RESULTS:

Test Requested

In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 & 31, European Commission Directive 1935/2004/EC, Regulation (EU) No.10/2011 of 14 January 2011 and Its Amendments (EU) 2018/213, Regulation (EU) No.2016/1416, Regulation (EU) 2017/752 and BfR recommendation.

- 1) For material: Plastics and Silicon rubber – Overall migration test
- 2) For material: Plastics and Silicon rubber – Specific Migration of Bisphenol-A
- 3) For material: Plastics and Silicon rubber – Specific migration of heavy metal

Remark: Selected test items as requested by applicants.

Test Method

- 1) With reference to EN 1186-1 for selection of temperature and condition; total immersion with reference to EN 1186-3 for aqueous food simulants.
- 2) Sample preparation with reference to BS EN 13130-1:2004 with selection of simulants and condition, followed by analysis using High Performance Liquid Chromatography/ Mass Spectrometer (HPLC/MS).
- 3) With reference to Commission Regulation (EU) No.10/2011 of 14 January 2011 Annex III and Annex V for selection of simulant and conditions, EN13130-1:2004 for selection of test method, Samples were prepared at specific condition, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.

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1) Overall migration test

Simulant used	Temperature and condition	Limit (mg/dm ²)	Result	
			No.1	No.2
3% Acetic acid	70 deg. C, 2 hours	10	<3	<3
50% Ethanol	70 deg. C, 2 hours	10	<3	<3

- Note : 1. <=less than
2. mg/dm² = milligram per square decimeter
3. Test simulant was specified by client

2) Specific Migration of Bisphenol-A

Simulant used	Temperature and condition	Maximum Permissible Limit (mg/kg)	Result	
			No.1	No.2
3% Acetic acid(V/V)	70 deg. C, 2 hours	0.05	<0.01	<0.01

- Note : 1. mg/kg = milligram per kilogram
2. <=less than



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3) Specific migration of Heavy Metals

Test Item	Limit (mg/kg)	MDL (mg/kg)	Result (mg/kg)	
			No.1	No.2
Extractable Barium	1.0	0.5	N.D.	N.D.
Extractable Cobalt	0.05	0.02	N.D.	N.D.
Extractable Copper	5.0	1.0	N.D.	N.D.
Extractable Iron	48.0	2.0	N.D.	N.D.
Extractable Lithium	0.6	0.2	N.D.	N.D.
Extractable Manganese	0.6	0.2	N.D.	N.D.
Extractable Zinc	5.0	2.0	N.D.	N.D.
Extractable Aluminium	1.0	0.5	N.D.	N.D.
Extractable Nickel	0.02	0.02	N.D.	N.D.

- Note :
1. mg/kg = milligram per kilogram
 2. N.D. = not detected (less than MDL)
 3. The limit refers to Regulation (EU) No.10/2011, Regulation (EU) No.2016/1416 and Regulation (EU) 2017/752.

Test Part Description :

No.1 : White plastic

No.2 : Blue silicone

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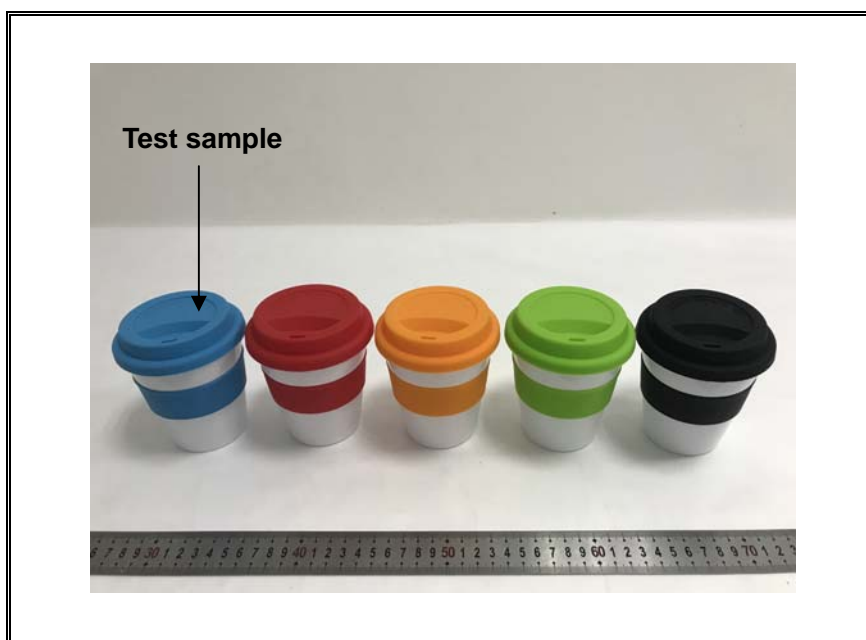
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SAMPLE REFERENCE PHOTO:



End of Report

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