
Test Report

Report No. : AGC03507201101-001

SAMPLE NAME : Kids tritan bottle
MODEL NAME : MO9909
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to follow page(s).
DATE OF ISSUE : Nov.09, 2020

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.



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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Kids tritan bottle
Model : MO9909
Vendor Code : 107978
Sample Received Date : Nov.03, 2020
Testing Period : Nov.03, 2020 to Nov.09, 2020

Approved by: Reed

Qinlian zhi, Reed

Laboratory Supervisor

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

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Test Result:
1. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0; 68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

No.	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

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2. Test Result of Cadmium(Cd) Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity
1-12	N.D.	Conformity
1-13	N.D.	Conformity
1-14	N.D.	Conformity

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3. Test Result of Lead(Pb) Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity
1-12	N.D.	Conformity
1-13	N.D.	Conformity
1-14	N.D.	Conformity

Note:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

N.D.=Not Detected (less than method detection limit)

%= percentage

Remark:

- As specified by client, only test the designated sample.

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4.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)						Limit
			1-1	1-2	1-3	1-4	1-5	1-6	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
50% Acetic acid		5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

4.2 Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-1	1-2	1-3	
Aluminum(Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		0.5	N.D.	N.D.	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	N.D.	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	N.D.	N.D.	5
Nickel (Ni) (M)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	/	Pass	Pass	Pass

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-4	1-5	1-6	
Aluminum(Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		0.5	N.D.	N.D.	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	N.D.	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	N.D.	N.D.	5
Nickel (Ni) (M)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion			/	Pass	Pass	Pass

Note: 1. N.D.=not detected (less than method detection limit)

2. M= Migration

3. MDL= method detection limit

4.3 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)						Limit
			3% Acetic acid						
			1-1	1-2	1-3	1-4	1-5	1-6	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note: 1. N.D.=Not Detected (less than method detection limit)

2. MDL=method detection limit

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5.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-12	1-13	1-14	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% Ethanol	70°C, 2h	5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	/

- Note:**
1. N.D.=Not Detected (less than method detection limit)
 2. MDL=method detection limit

5.2 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-12	1-13	1-14	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	/

- Note:**
1. N.D.=Not Detected (less than method detection limit)
 2. MDL=method detection limit

6. Test Result of mechanical dishwashing safe test

Sample 1: Kids tritan bottle

Test details:

Test method: AGC in-house method (reference to BS EN 12875-1:2005)

Washing temperature: 60°C

Number of cycle: Five (5) cycles

Number of tested sample: Four (4) pc(s)

Number of control sample: Four (4) pc(s)

Test results

For all tested plastic articles:

- 1) No visible change of color, gloss and clouding was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

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7. Test Result of microwave test

Sample 1: Kids tritan bottle

Test method: Refer to EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: Four (4) samples per color per style

Number of control sample: Four (4) sample per color per style

Test results

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1.(White)	41.1°C	68.1°C
2.(Red)	43.4°C	71.1°C
3.(Green)	39.1°C	65.2°C
4.(Blue)	45.1°C	74.2°C

For all tested plastic articles

- 1) No visible cracking and colour change was found on the tested samples.
- 2) No visible melting, deformation, suitability for re-use and charring was found on the tested samples.

Sample Description:

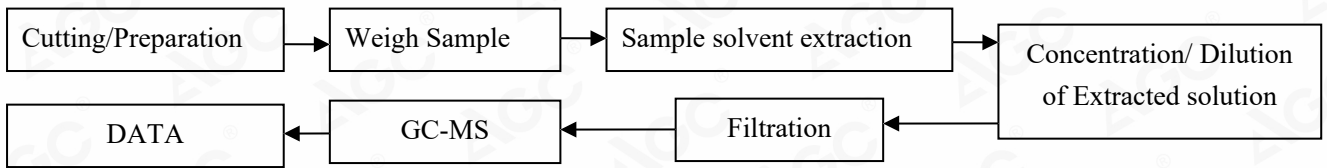
1	Kids tritan bottle
1-1	Transparent plastic bottle body
1-2	Pink plastic bottle body
1-3	Blue plastic bottle body
1-4	Green plastic bottle body
1-5	Transparent pipette
1-6	Grey plastic cover
1-7	Light gray plastic handle
1-8	White plastic
1-9	Pink plastic
1-10	Blue plastic
1-11	Green plastic
1-12	Silicone ring
1-13	Silicone nozzle
1-14	Small silicone plug

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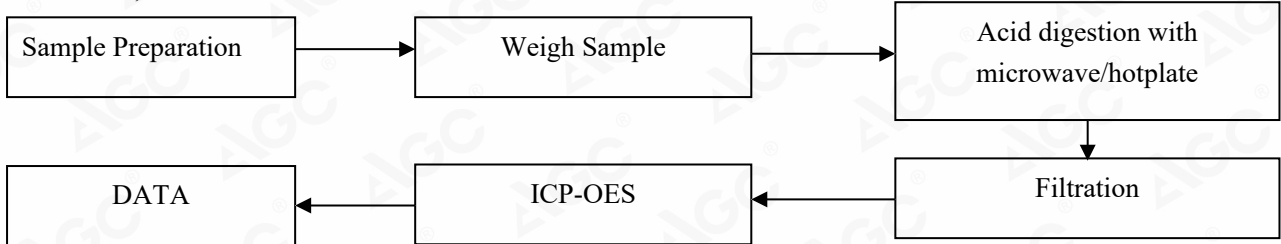


Test Flow Chart

1. For Phthalates



2. For Cd, Pb



The photo of the sample



AGC03507201101-001

AGC authenticate the photo only on original report

*** End of Report ***

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
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6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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TEST REPORT

Reference No. : WTF21F06059996A1F
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 107978
Sample Name : Silicone ring for bottle / tumbler
Model No. : MO6168, MO6169, MO6192, MO6237, MO9246, MO9358, MO9636, MO9710, MO9746, MO9796, MO9797, MO9800, MO9810, MO9812, MO9909, MO9910, MO9963
Test Requested : In accordance with French Décret n°2007-766 with amendments and Regulation (EC) No 1935/2004.
Test Conclusion : **Pass** (Please refer to next pages for details)
Date of Receipt sample : 2021-06-22 & 2021-07-23
Date of Test : 2021-06-22 to 2021-07-29
Date of Issue : 2021-07-29
Test Result : Please refer to next page (s)
Note : Selected test(s) as requested by applicant

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.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

Prepared By:

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Compiled by:

Approved by:

Abby Zhou

Abby.Zhou / Project Engineer

Dino Zhang

Dino.Zhang / Technical Manager

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

Food Simulant	Test Condition	Result (mg/kg)	LOQ(mg/kg)	Limit (mg/kg)
		No.1		
3% Acetic Acid	70°C for 2 hours	ND	20	60
10% 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. 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 French Arrêté du 25 novembre 1992 for Silicone Elastomers.

2. Peroxide Value Test

Test Item	Result	Limit
	No.1	
Peroxide Value	Absent	Absent

Note:

1. Test method: With reference to European Pharmacopeia (2005) ANNEX X F, Clause 2.5.5, method A.
2. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.
3. Absent = Not detected

3. Specific Migration of Organotin (as Tin)

Test Item	Result (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Specific Migration of Organotin (as Tin)	ND	0.01	0.1

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-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.

**4. Bisphenol A Content**

Test Item	Result (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Bisphenol A	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.

5. Volatile Organic Compounds

Test Item	Result (%)	LOQ (%)	Limit (%)
	No.2		
Volatile Organic compounds	0.08	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.

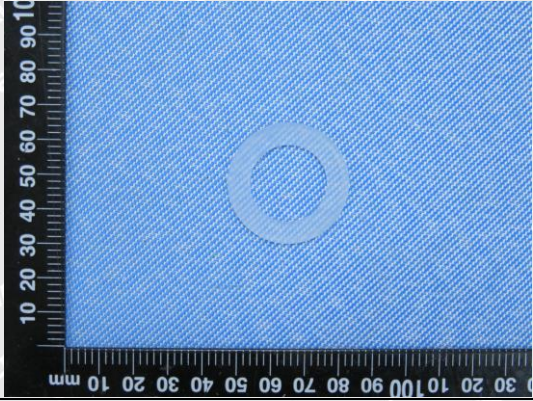
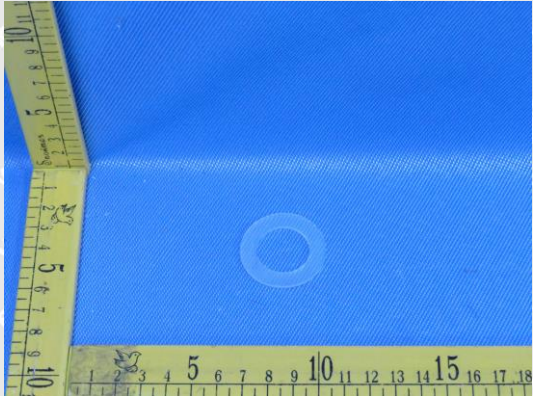


Sample description:

No.1: Translucent silicone rubber (Silicone rubber)

No.2: Translucent silicone rubber (Silicone rubber)

Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Translucent silicone rubber	Silicone rubber (Sample received at 2021-06-22)
2		Translucent silicone rubber	Silicone rubber (Sample received at 2021-07-23)

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