
Test Report

Report No. : AGC05443220809-001

SAMPLE NAME : silicone tea bag
MODEL NAME : MO6707
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Aug.22, 2022

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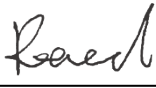


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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong,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


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

Sample Name : silicone tea bag
Model : MO6707
Country of origin : CHINA
Country of destination : EUROPE
Vendor code : 114276
Sample Received Date : Aug.11, 2022
Testing Period : Aug.11, 2022 to Aug.22, 2022

Approved by: 

Qinlianzi, Reed

Laboratory Supervisor

Approved by: 

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Aug.22, 2022	Valid	Initial release

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Test Requested:	Conclusion
1. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
4. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone: - Overall Migration (3% Acetic acid, 50% ethanol) - Specific migration of Bisphenol A(BPA) - Bisphenol A(BPA) content	Pass Pass Pass
5. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442. -Peroxide value -Volatile Organic Matter -Specific Migration of Organotin (measured as Tin)	Pass Pass Pass
6. As specified by client, to determined for mechanical dishwashing safe test.	/
7. As specified by client, to determined for microwave test.	/

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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%	

Test point	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

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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

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1	N.D.	Conformity
1-2*	N.D.	Conformity

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

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2*	N.D.	Conformity

Note:

mg/kg =milligram per kilogram
MDL = Method Detection Limit

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

Remark:

- *=As specified by client, the submitted samples were mixed to test.

4.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

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

 Unit: mg/dm²

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

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

4.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit (Client's Requirement)
			1-1	1-3	
Specific migration of Bisphenol A(BPA)	3% Acetic acid 70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	0.05
Conclusion	/	/	Conformity	Conformity	/

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit (Client's Requirement)
			1-4	1-5	
Specific migration of Bisphenol A(BPA)	3% Acetic acid 70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	0.05
Conclusion	/	/	Conformity	Conformity	/

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

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4.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit (Client's Requirement)
			1-1	1-3	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	N.D.	Absent
Conclusion	/	/	Conformity	Conformity	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit (Client's Requirement)
			1-4	1-5	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	N.D.	Absent
Conclusion	/	/	Conformity	Conformity	/

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

5.1 Test Result(s) of Peroxide value

Unit: %

Test Item	MDL	Result(s)		Limit
		1-1	1-3	
Peroxide value	0.2	Absent	Absent	Absent
Conclusion	/	Conformity	Conformity	/

Unit: %

Test Item	MDL	Result(s)		Limit
		1-4	1-5	
Peroxide value	0.2	Absent	Absent	Absent
Conclusion	/	Conformity	Conformity	/

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

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5.2 Test result of Volatile Organic Matter

Unit: %,w/w

Test item(s)	Test Condition	MDL	Result(s)		Limit
			1-1	1-3	
Volatile Organic Matter	200°C, 4h	0.1	0.26	0.41	0.5
Conclusion		/	Conformity	Conformity	/

Unit: %,w/w

Test item(s)	Test Condition	MDL	Result(s)		Limit
			1-4	1-5	
Volatile Organic Matter	200°C, 4h	0.1	0.44	0.41	0.5
Conclusion		/	Conformity	Conformity	/

Note: -MDL=method detection limit
 -N.D.=not detected (less than method detection limit)
 -0.1%,w/w =1000mg/kg

5.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit
			1-1	1-3	
Specific Migration of Organotin (measured as Tin)	3% Acetic acid 70°C, 2h / ICP-OES	0.01	N.D.	N.D.	0.1
Conclusion	/	/	Conformity	Conformity	/

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		Limit
			1-4	1-5	
Specific Migration of Organotin (measured as Tin)	3% Acetic acid 70°C, 2h / ICP-OES	0.01	N.D.	N.D.	0.1
Conclusion	/	/	Conformity	Conformity	/

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

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6. Test Result of mechanical dishwashing safe test:**Sample: silicone tea bag (Blue)**

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

For all tested plastic or metal 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 delaminate on was found on the tested samples after wash.

Sample: silicone tea bag (Black)

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

For all tested plastic or metal 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 delaminate on was found on the tested samples after wash.

Sample: silicone tea bag (Green)

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

For all tested plastic or metal 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 delaminate on was found on the tested samples after wash.

7. Test Result of microwave test:**Sample: silicone tea bag (Blue)**

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	36.8°C	70.6°C

For all tested plastic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, deformation was found on the tested samples after test.
- 3) No melting, charring was found on the tested samples after wash.
- 4) The tested samples still suitability to re-use after test.

Sample: silicone tea bag (Black)

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	38.8°C	72.3°C

For all tested plastic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, deformation was found on the tested samples after test.
- 3) No melting, charring was found on the tested samples after wash.
- 4) The tested samples still suitability to re-use after test.

Sample: silicone tea bag (Green)

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	39.2°C	71.0°C

For all tested plastic articles:

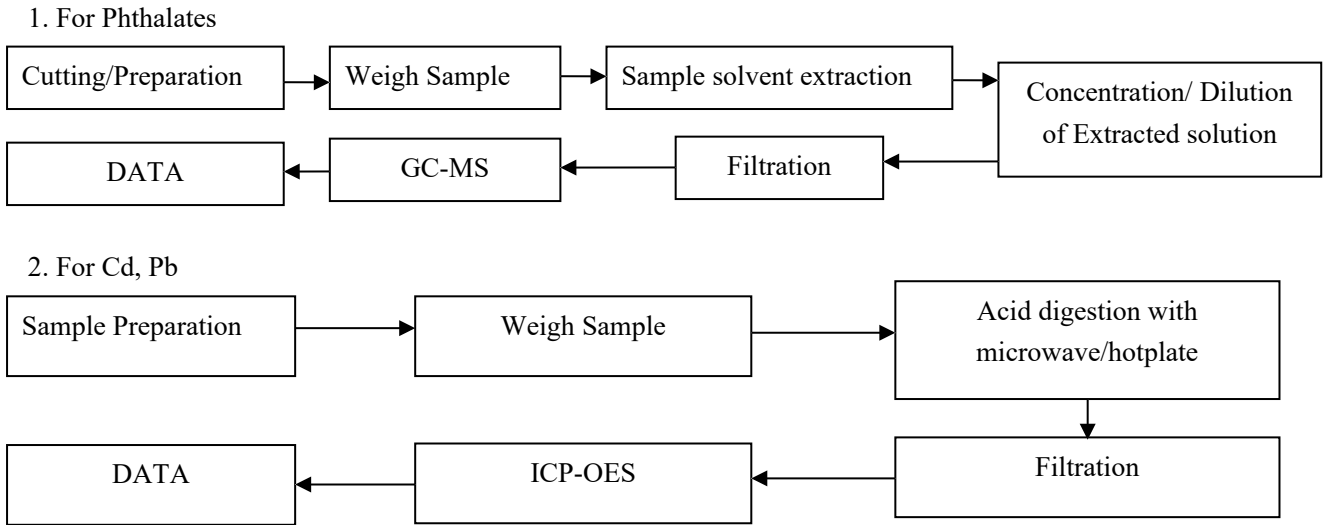
- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, deformation was found on the tested samples after test.
- 3) No melting, charring was found on the tested samples after wash.
- 4) The tested samples still suitability to re-use after test.

Test Point Description

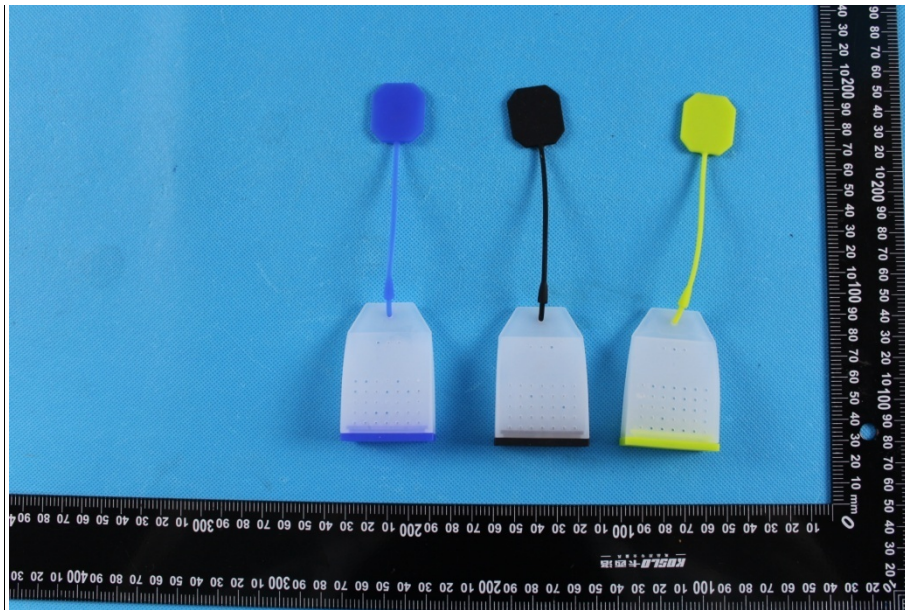
Test point	Test point description
1	silicone tea bag
1-1	Transparent silicone
1-2	Green Silicone + Blue Silicone + Black Silicone
1-3	Green Silicone
1-4	Blue Silicone
1-5	Black Silicone

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Test Flow Chart



The photo of the sample



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AGC authenticate the photo only on original report

*** End of Report ***

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