

Test Report

Report No.: AGC03507191105-001

Date: Nov.11, 2019

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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: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Glass tumbler
Model No. : MO9992
Supplier : 107978
Country of origin : CHINA
Country of destination : EUROPE
Sample Received Date : Nov.05, 2019
Testing Period : Nov.05, 2019 to Nov.11, 2019

Test Requested: Please refer to next page(s).

Test Method: Please refer to next page(s).

Test Result: Please refer to next page(s).

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Requested:

1. As specified by client, to determine the Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.
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.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
4. As specified by client, to test sample with reference to Regulation 1935/2004/EC and Council of Europe Resolution AP (2004) 5 and (EU) 2018/213 for silicone:
 - Overall Migration(3%(w/v) Acetic acid, 50% (v/v) Ethanol)
 - Migration of BPA
5. As specified by client, to determine the Leachable Lead and Cadmium content in Glass Ware with reference to Regulation NO.84/500/EEC and 2005/31/EC.

Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

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No.18 C

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Test Result(s):
1. Test Result(s) of Pb:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 - 3.As specified by client, only test the designated sample

2. Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

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- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

3. Test result of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion			/	Pass	Pass	Pass

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion			/	Pass	Pass	Pass

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- Note :**
1. 0.1%,w/w =1000mg/kg
 2. MDL=method detection limit
 3. N.D.=not detected (less than method detection limit)
 4. “-” =Not regulated
 5. As specified by client, only test the designated sample

For silicone
4.1. Test result of Overall Migration

 Unit: mg/dm²

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

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-4	1-5	1-6	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% (v/v) Ethanol		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
 3. Surface area/Volume=6 dm²/1L

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4.2. Test result of Migration of BPA

Unit: mg/kg

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

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)			Limit
			3% (w/v) Acetic acid			
			1-4	1-5	1-6	
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

 3. Surface area/Volume=6 dm²/1L

For glass
5. Test Result(s) of Leachable Lead and Cadmium

Unit: mg/L

Test Item(s)	Test condition/ Equipment	MDL	Result(s)				Limit
			4% (v/v) Acetic acid				
			1-7-A	1-7-B	1-7-C	1-7-D	
Lead (Pb)	22°C, 24h ICP-OES	0.1	N.D.	N.D.	N.D.	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	N.D.	N.D.	N.D.	0.3
Conclusion		/	Pass	Pass	Pass	Pass	/

Note : 1. MDL=method detection limit

2. N.D.=not detected (less than method detection limit)

3. Results shown above are testing data of four groups.

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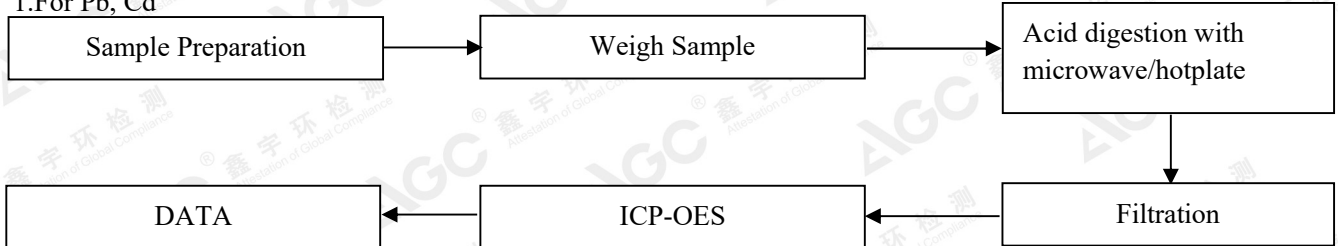
4. Surface area/Volume=6 dm²/1L

Sample Description

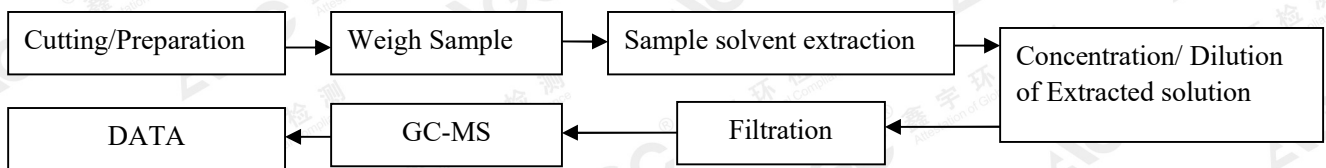
1-1	Black silicone
1-2	White silicone
1-3	Red silicone
1-4	Yellow silicone
1-5	Blue silicone
1-6	Green silicone
1-7	Glass bottle body

Test Flow Chart

1. For Pb, Cd



2. For phthalates



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The photo of the sample



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AGC authenticate the photo on original report only

*** End of Report***

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