
Test Report

Report No. : AGC05443220402-001

SAMPLE NAME : Borosilicate glass mug
MODEL NAME : CX1485
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 31, 2022

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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 : 2, 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 : Borosilicate glass mug
Model : CX1485
Vendor code : 114276
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Apr.01, 2022
Testing Period : Apr.01, 2022 to May 31, 2022

Approved by: Reed

Qinlianzhi, Reed

Laboratory Supervisor

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 31, 2022	Valid	Initial release

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Test Requested:	Conclusion
1. As specified by client, to determine the Polycyclic-aromatic hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. 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
3. 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
4. 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
5. As specified by client, to determined for mechanical dishwashing safe test.	/
6. As specified by client, to determined for microwave test.	/
7. As specified by client, the following items are determined in the submitted sample with reference to the Regulation 1935/2004/EC, Regulation (EU) 2018/213& Regulation (EU) 2020/1245 and Council of Europe Resolution AP(2004)5:	
- Overall Migration	Pass
- Bisphenol A(BPA) content	Pass
- Specific migration of Bisphenol A(BPA)	Pass
8. As specified by client, to test sample with reference to DM-4B-COM-003-v01 for:	
-Volatile Organic Matter	Pass
- Peroxide value	Pass
- Specific Migration of Organotin (measured as Tin)	Pass
9. As specified by client, to determine the Leachable Lead and Cadmium content in ceramic Ware with reference to Regulation 1935/2004/EC, No. 84/500/EEC and 2005/31/EC.	Pass

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Test Result(s):
1. Test Result of Polycyclic-aromatic hydrocarbons (PAHs)Content

Test Item	Test Method/ Instrument	MDL	Limit
Benzo[a]pyrene (BaP) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK/ GC-MS	0.1mg/kg	Rubber or plastic components: Single≤1mg/kg
Benzo[e]pyrene(BeP) (CAS No.: 192-97-2)		0.1mg/kg	
Benzo[a]anthracene (BaA) (CAS No.: 56-55-3)		0.1mg/kg	
Benzo[b]fluoranthene (BbF) (CAS No.: 205-99-2)		0.1mg/kg	
Benzo[j]fluoranthene(BjFA) (CAS No.: 205-82-3)		0.1mg/kg	
Benzo[k]fluoranthene (BkF) (CAS No.: 207-08-9)		0.1mg/kg	
Chrysene (CHR) (CAS No.: 218-01-9)		0.1mg/kg	
Dibenzo[a,h]anthracene (DBA) (CAS No.: 53-70-3)		0.1mg/kg	

Test Item(s)	Result(s) (mg/kg)
	1-1
Benzo[a]pyrene (BaP)	N.D.
Benzo[e]pyrene(BeP)	N.D.
Benzo[a]anthracene (BaA)	N.D.
Benzo[b]fluoranthene (BbF)	N.D.
Benzo[j]fluoranthene(BjFA)	N.D.
Benzo[k]fluoranthene (BkF)	N.D.
Chrysene (CHR)	N.D.
Dibenzo[a,h]anthracene (DBA)	N.D.
Sum of PAHs	N.D.
Conclusion	Conformity

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2. 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

3. 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

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4. 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

5. Test Result of mechanical dishwashing safe test:

Sample: silicone lid

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 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.

6. Test Result of microwave test:

Sample: silicone lid

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: 2 (Two) 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	/	111.4°C
2	/	112.8°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.

7.1 Test Result(s) of Overall Migration

Test point	Test Result		Conclusion
	Overall migration/ (mg/dm ²)		
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-1	N.D.	N.D.	Conformity
Limit	10	10	/
MDL	5	5	/

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

Test Item	Bisphenol A (BPA)
Limit(Client's Requirement) (mg/kg)	Prohibited
MDL(mg/kg)	1
Test Method/ Instrument	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS

Test point	Test Result (mg/kg)	Conclusion
	Bisphenol A (BPA)	
1-1	N.D.	Conformity

7.3 Test Result(s) of Specific migration of Bisphenol A(BPA)

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

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8.1 Test Result(s) of Volatile Organic Matter

Unit: %

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

8.2 Test Result(s) of Peroxide value

Unit: %

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

8.3 Test Result(s) of Specific Migration of Organotin (measured as Tin)

Test point	Test Result		Conclusion
	Specific Migration of Organotin (measured as Tin)/ (mg/kg)		
	3% Acetic acid, 70°C,2h		
1-1	N.D.		Conformity
Limit	0.1		/
MDL	0.02		/

9. Test Result(s) of Leachable Lead and Cadmium (No. 84/500/EEC and 2005/31/EC)

Test Item	Leachable Lead	Leachable Cadmium
Limit(mg/L)	4.0	0.3
MDL (mg/L)	0.1	0.01
Test Condition	4% Acetic acid, 22°C,24h	
Test Method/ Instrument	EN 1388-1:1995/ ICP-OES	

No.	Test result (mg/L)		Conclusion
	Leachable Lead	Leachable Cadmium	
1-2	N.D.	N.D.	Conformity

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Note:

mg/L= Milligrams per liter

mg/dm²= milligrams per decimeter squared

% = percentage

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

MDL = Method Detection Limit

Remark:

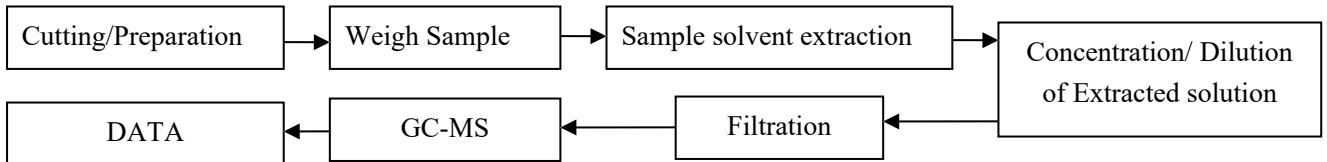
- As specified by client, only test the designated sample.

Test Point Description

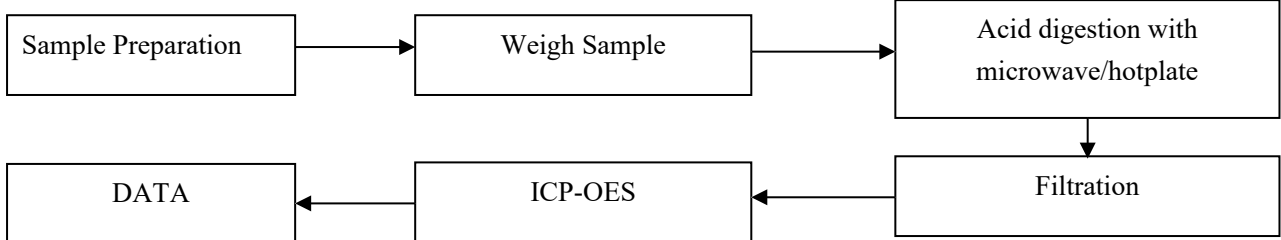
Test point	Test point description
1-1	silicone lid
1-2	glass mug

Test Flow Chart

1. For PAHs, Phthalates



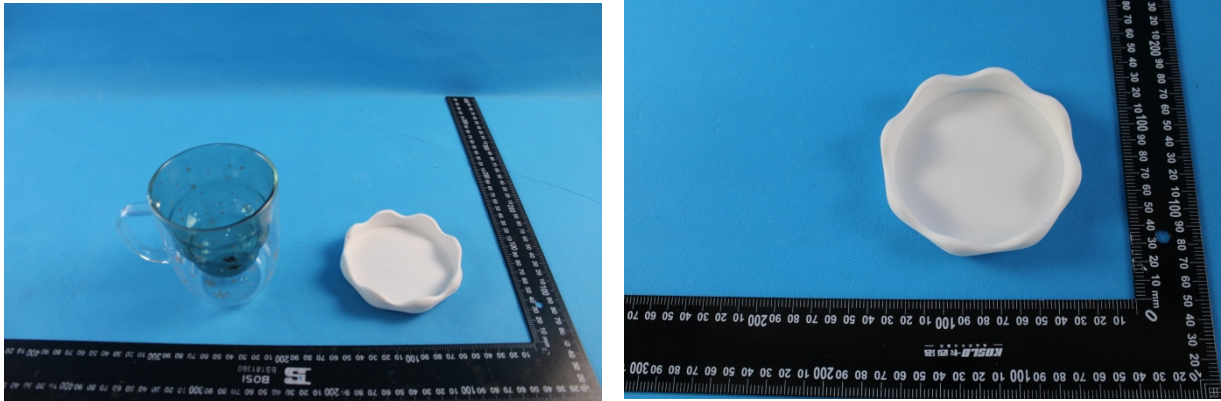
2. For Cd, Pb



Test result of Volatile Organic Matter on specimen No.1-1 was resubmitted sample on May 26, 2022.

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The photo of the sample



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AGC authenticates the photo only on the original report

*** End of Report ***

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4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 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.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 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.
8. 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.
9. 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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