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# Test Report

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Report No. : AGC05443221004-001

**SAMPLE NAME** : set of 2 glasses 350 ml in box  
**MODEL NAME** : MO6739  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Nov.01, 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 : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

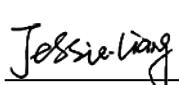
**Report on the submitted sample(s) said to be:**

Sample Name : set of 2 glasses 350 ml in box  
Model : MO6739  
Vendor code : 111025  
Country of origin : CHINA  
Country of destination : EUROPE  
Sample Received Date : Oct.10, 2022  
Testing Period : Oct.10, 2022 to Nov.01, 2022

Approved by: 

Qinlian zhi, Reed

Laboratory Supervisor

Approved by: 

Liangdan, Jessie.Liang

Technical Director

## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Nov.01, 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.	<b>Pass</b>
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.	<b>Pass</b>
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.	<b>Pass</b>
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.	<b>Pass</b>
5. As specified by client, to determine the Formaldehyde Release in the submitted sample(s).	<b>Pass</b>
6. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011 for: Pentachlorophenol (PCP) Content Specific Migration of Formaldehyde	<b>Pass</b>
7. 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 and its amendment Regulation (EU)2018/213 for silicone:	
- Overall Migration (3% Acetic acid, 50% ethanol)	<b>Pass</b>
- Specific migration of Bisphenol A(BPA)	<b>Pass</b>
- Bisphenol A(BPA) content	<b>Pass</b>
8. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442.	
-Peroxide value	<b>Pass</b>
-Volatile Organic Matter	<b>Pass</b>
-Specific Migration of Organotin (measured as Tin)	<b>Pass</b>
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.	<b>Pass</b>
10. As specified by client, to determined for mechanical dishwashing safe test.	/
11. As specified by client, to determined for microwave test.	/

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**Test Result:**
**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)
	1-2
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.
<b>Conclusion</b>	<b>Conformity</b>

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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)	
1-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<b>Conformity</b>

**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)	
1-2	N.D.	<b>Conformity</b>

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#### 4. Test Result of Lead(Pb)Content

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

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

#### 5. Test result of Formaldehyde Release

<b>Test Item(s)</b>	Formaldehyde Release
<b>Limit (Client's Requirement) (mg/kg)</b>	80
<b>MDL (mg/kg)</b>	1
<b>Test Method/ Equipment</b>	EN717-3:1996/ UV-Vis

<b>Test point</b>	<b>Test result (mg/kg)</b>	<b>Conclusion</b>
	<b>Formaldehyde Release</b>	
1-1	N.D.	<b>Conformity</b>

**Note:**

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

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

### 6.1 Test Result(s) of Total Pentachlorophenol (PCP) content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Test Result(s)		Limit
			1-1		
Pentachlorophenol (PCP)	EN ISO 15320-2011 GC-MS	0.05	N.D.		0.15
<b>Conclusion</b>	/	/	<b>Conformity</b>		/

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

### 6.2 Special Migration of Formaldehyde

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			1-1			
			1 <sup>st</sup> extractives	2 <sup>nd</sup> extractives	3 <sup>rd</sup> extractives	
Special Migration of Formaldehyde	3% Acetic acid 70°C, 2h/ UV-Vis	5	N.D.	N.D.	N.D.	15
<b>Conclusion</b>	/	/	<b>Conformity</b>			/

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



### 7.1 Test Result(s) of Overall Migration

 Unit: mg/dm<sup>2</sup>

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

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

### 7.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

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

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

### 7.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-2	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	Absent
<b>Conclusion</b>	/	/	<b>Conformity</b>	/

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

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### 8.1 Test Result(s) of Peroxide value

Unit: %

Test Item	MDL	Result(s)	Limit
		1-2	
Peroxide value	0.2	Absent	Absent
<b>Conclusion</b>	/	<b>Conformity</b>	/

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

### 8.2 Test result of Volatile Organic Matter

Unit: %

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-2	
Volatile Organic Matter	200°C, 4h	0.1	0.25	0.5
<b>Conclusion</b>		/	<b>Conformity</b>	/

**Note:** -MDL=method detection limit  
-N.D.=not detected (less than method detection limit)  
-0.1% =1000mg/kg  
Test result on specimen No.1-2 was resubmitted on Oct.26, 2022.

### 8.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

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

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

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

Unit: mg/L

Test Item(s)	Test Condition/ Equipment	MDL	Result(s)	Limit
			4% Acetic acid	
			1-3	
Lead (Pb)	EN 1388-2:1996 22°C, 24h/ ICP-OES	0.1	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	0.3
<b>Conclusion</b>		/	<b>Conformity</b>	/

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

**10. Test Result of mechanical dishwashing safe test:**
**Sample: set of 2 glasses 350 ml in box**

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 glass articles:

- 1) No visible change of color and gloss 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 cloud texture was found on the tested samples after wash.
- 4) No decoration was detached after wash.

**11. Test Result of microwave test:**
**Sample: set of 2 glasses 350 ml in box**

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	44.5°C	59.8°C
2	40.5°C	65.6°C

For all tested glass, glass-ceramic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, crazing, scaling was found on the tested samples after test.

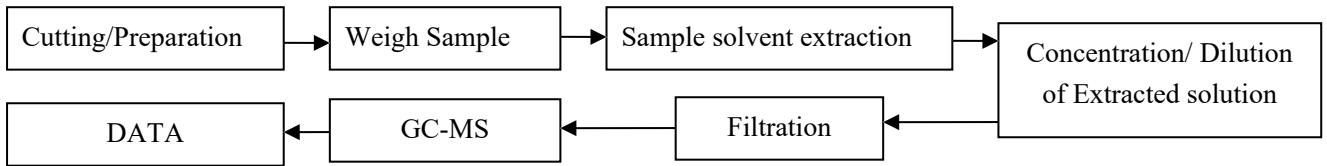
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**Test Point Description**

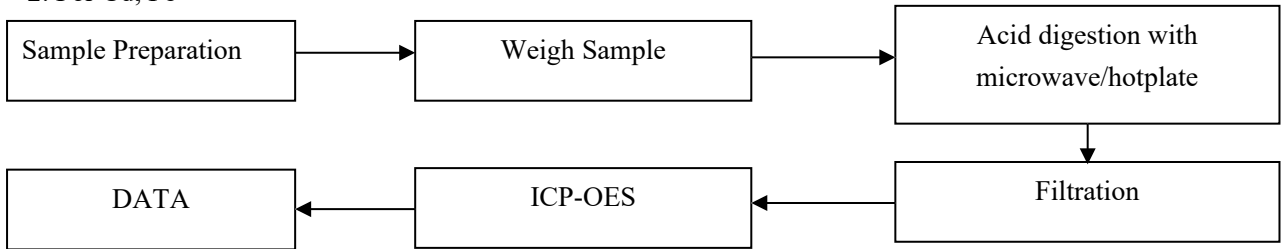
Test point	Test point description
1	set of 2 glasses 350 ml in box
1-1	bamboo lid
1-2	silicone sealing
1-3	glass mug

**Test Flow Chart**

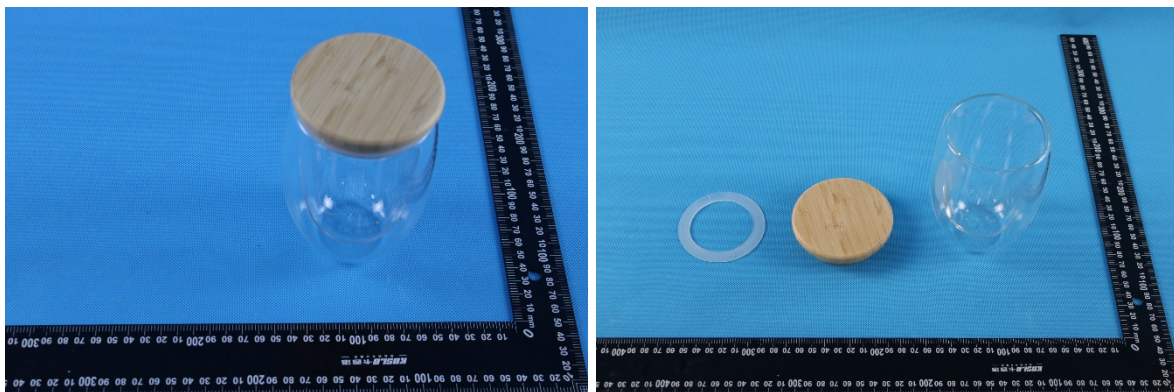
1. For Phthalates, PAHS



2. For Cd, Pb



**The photo of the sample**



**AGC05443221004-001**

AGC authenticate the photo only on 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.
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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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