
Test Report

Report No. : AGC05443220332-001

SAMPLE NAME : Double wall SS tumbler with integrated handle
MODEL NAME : MO6577
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 10, 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, SanweiChaxi Industrial Park, Sanwei Community,
: Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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

Sample Name : Double wall SS tumbler with integrated handle
Model : MO6577
Country of Origin : CHINA
Country of Destination : EUROPE
Vendor code : 115253
Sample Received Date : Mar.30, 2022
Testing Period : Mar.30, 2022 to May 10, 2022

Approved by: 

Qinlianzhi, Reed

Laboratory Supervisor

Approved by: 

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 10, 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, with reference to order of DM/4B/COM/001 and Council of Europe Resolution CM/Res(2013)9 – Technical Guide on Metals and alloys used in food contact materials for: - Extractable heavy metal	Pass
5. 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& (EU)2018/213& (EU) 2020/1245 for PP:	
- Overall Migration (3% Acetic acid, 50% ethanol)	Pass
- Bisphenol A(BPA) content	Pass
- Specific Migration of Primary aromatic amines	Pass
- Specific Migration of Heavy metals	Pass
6. 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 &(EU) No.10/2011 &(EU)2018/213 for TPR:	
- Overall Migration (3% Acetic acid, 50% Ethanol)	Pass
- Specific migration of Bisphenol A(BPA)	Pass
- Bisphenol A(BPA) content	Pass
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 &(EU)2018/213 for silicone:	
- Overall Migration (3% Acetic acid, 50% Ethanol)	Pass
- Specific migration of Bisphenol A(BPA)	Pass
- Bisphenol A(BPA) content	Pass
8. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442.	
- Overall Migration (3% Acetic acid, 50% Ethanol)	Pass
- Specific migration of Bisphenol A(BPA)	Pass
- Bisphenol A(BPA) content	Pass
9. As specified by client, to determined for mechanical dishwashing safe test.	/

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Test Result(s):
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)	
1-2	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

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)	
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	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

Test point	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

Note:

mg/kg =milligram per kilogram

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

MDL = Method Detection Limit

%= percentage

Remark:

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

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4. Extractable heavy metal

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)		
			1-1		Limit
			1 st + 2 nd extractives		
Barium (Ba)	0.5% Citric acid / 70°C, 2h ICP-OES	0.1	N.D.		8.4
Copper (Cu)		0.1	N.D.		28
Iron (Fe)		0.1	0.318		280
Tin (Sn)		0.1	N.D.		700
Chromium (Cr)		0.01	0.019		1.75
Manganese (Mn)		0.1	N.D.		12.6
Zinc (Zn)		0.1	N.D.		35
Aluminum (Al)		0.1	N.D.		35
Lithium (Li)		0.01	N.D.		0.336
Beryllium (Be)		0.005	N.D.		0.07
Vanadium (V)		0.005	N.D.		0.07
Nickel (Ni)		0.01	0.013		0.98
Cobalt (Co)		0.01	N.D.		0.14
Arsenic (As)		0.002	N.D.		0.014
Molybdenum (Mo)		0.01	N.D.		0.84
Silver (Ag)		0.01	N.D.		0.56
Cadmium (Cd)		0.002	N.D.		0.035
Antimony (Sb)		0.01	N.D.		0.28
Mercury (Hg)		0.002	N.D.		0.021
Thallium (Tl)		0.0001	N.D.		0.0007
Lead (Pb)	0.01	N.D.		0.07	
Conclusion		/	Conformity		/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-1	
			3 rd extractives	
Barium (Ba)	0.5% Citric acid / 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	0.01	N.D.	0.01	
Conclusion		/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than 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
			1-2			
			1 st extractives	2 nd extractives	3 rd extractives	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% Ethanol		5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Conformity			/

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

5.2 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
Conclusion	/	/	Conformity	/

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

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5.3 Specific migration of Primary aromatic amines

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)
4-Aminobiphenyl	0.002	N.D.
Benzidine	0.002	N.D.
4-Chloro-o-Toluidine	0.002	N.D.
2-Naphthylamine	0.002	N.D.
4-amino-2',3-dimethylazobenzene	0.002	N.D.
5-Nitro-o-toluidine	0.002	N.D.
4-Chloroaniline	0.002	N.D.
4-Methoxy-m-phenylenediamine	0.002	N.D.
4,4'-Diaminodiphenylmethane	0.002	N.D.
3,3'-Dichlorobenzidine	0.002	N.D.
3,3'-Dimethoxybenzidine	0.002	N.D.
3,3'-Dimethylbenzidine	0.002	N.D.
4,4'-Methylenedi-o-toluidine	0.002	N.D.
6-methoxy-m-toluidine	0.002	N.D.
4,4'-methylenebis[2-chloroaniline]	0.002	N.D.
4,4'-Oxydianiline	0.002	N.D.
4,4'-Thiodianiline	0.002	N.D.
2-Aminotoluene	0.002	N.D.
4-methyl-m-phenylenediamine	0.002	N.D.
2,4,5-Trimethylaniline	0.002	N.D.
2-Methoxyaniline	0.002	N.D.
4-Aminoazobenzene	0.002	N.D.
1,3 phenylenediamine	0.002	N.D.
Total of other primary aromatic amines	0.01	0.01

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Test Item(s)	Test Result(mg/kg)
	1-2
	3% Acetic acid 70°C, 2h
4-Aminobiphenyl	N.D.
Benzidine	N.D.
4-Chloro-o-Toluidine	N.D.
2-Naphthylamine	N.D.
4-amino-2',3-dimethylazobenzene	N.D.
5-Nitro-o-toluidine	N.D.
4-Chloroaniline	N.D.
4-Methoxy-m-phenylenediamine	N.D.
4,4'-Diaminodiphenylmethane	N.D.
3,3'-Dichlorobenzidine	N.D.
3,3'-Dimethoxybenzidine	N.D.
3,3'-Dimethylbenzidine	N.D.
4,4'-Methylenedi-o-toluidine	N.D.
6-methoxy-m-toluidine	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.
4,4'-Oxydianiline	N.D.
4,4'-Thiodianiline	N.D.
2-Aminotoluene	N.D.
4-methyl-m-phenylenediamine	N.D.
2,4,5-Trimethylaniline	N.D.
2-Methoxyaniline	N.D.
4-Aminoazobenzene	N.D.
1,3 phenylenediamine	N.D.
Total of other primary aromatic amines	N.D.
Conclusion	Conformity

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

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5.4 Test Result(s) of Migration of Heavy metals

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-2			
			1 st migration	2 nd migration	3 rd migration	
Barium (Ba)	3% Acetic acid/ 70°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	Conformity			/
Ammonium (NH ₄ ⁺)		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.065	0.020	0.019	/
Magnesium (Mg)		0.01	0.014	N.D.	N.D.	/
Potassium (K)		0.01	0.024	N.D.	N.D.	/
Sodium (Na)		0.01	0.031	N.D.	N.D.	/

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6.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

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

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

6.2 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)
			1-3			
			1 st extractives	2 nd extractives	3 rd extractives	
Migration of BPA	3% Acetic acid, 70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Conformity			/

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

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

Unit: mg/kg

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

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

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7.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

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

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 (Client's Requirement)
			1-4	
Migration of BPA	3% Acetic acid, 70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Conformity	/

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
			1-4	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	Absent
Conclusion	/	/	Conformity	/

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

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8.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

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

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

8.2 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)
			1-4	
Migration of BPA	3% Acetic acid, 70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Conformity	/

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

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

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-4	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	0.1	N.D.	Absent
Conclusion	/	/	Conformity	/

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

Remark:

- Test result of Overall Migration 3% Acetic acid and Bisphenol A(BPA) Content on specimen No.1-3 were resubmitted sample on Apr.27, 2022.

9. Test Result of mechanical dishwashing safe test:

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 and metal articles:

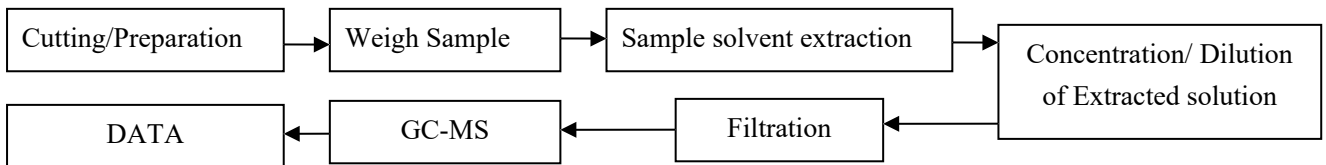
- 1) No visible change of color, gloss and clouding was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

Test Point Description

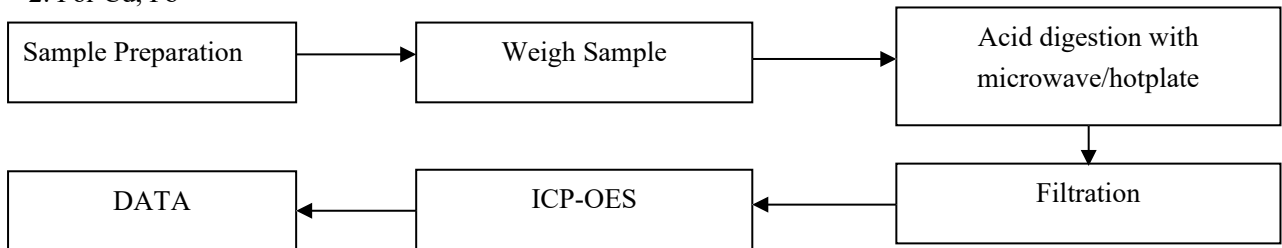
Test point	Test point description
1-1	Stainless steel cup body
1-2	Black plastic cover(PP)
1-3	Black TPR plug
1-4	Transparent silicon sealing

Test Flow Chart

1. For Phthalates



2. For Cd, Pb



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The photo of the sample



AGC05443220332-001

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. 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.
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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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