

Test Report

Report No. : AGC05443230812-001

SAMPLE NAME : Stainless steel single wall tumbler with silicone lid and grip

MODEL NAME : MO6257

APPLICANT: MID OCEAN BRANDS B.V

STANDARD(S) : Please refer to the following page(s).

DATE OF ISSUE : Aug. 22, 2023

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Applicant : MID OCEAN BRANDS B.V

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Report No.: AGC05443230812-001

Avenue, Xixiang, Baoan District, Shenzhen, Guangdong, China

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

Sample Name : Stainless steel single wall tumbler with silicone lid and grip

Model : MO6257
Country of Origin : CHINA
Country of Destination : EUROPE
Vendor code : 114276
Sample receiving state : Normal
Sample Received Date : Aug. 14, 2023

Testing Period : Aug. 14, 2023 to Aug. 22, 2023
Test Requested : Selected test(s) as requested by c

: Selected test(s) as requested by client.

Approved by: Mengushua Approved by: Jessie lians

Huangguohua Liangdan, Jessie.Liang

Vice Laboratory Manager Technical Director



Conclusion

Mechanical dishwashing safe test

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23 -Cadmium(Cd) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63 - Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

Pass

- Phthalates Content

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9

Pass

- Specific migration of Heavy metal

Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 and Council of Europe Resolution AP (2004)5

Pass

Overall migration
Bisphenol A(BPA) content
Specific migration of Bisphenol A(BPA)

Pass Pass

DM-4B-COM-003-v01

-Volatile Organic Matter

Pass

- Peroxide value

Pass

- Specific Migration of Organotin (measured as Tin)

Pass



Report Revise Record

Report No.: AGC05443230812-001

Report Version	Issued Date	Valid Version	Notes
/	Aug. 22, 2023	Valid	Initial release



The photo of the sample

The photo of AGC05443230812-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Black silicone hand+Black silicone cover
1-2	Metal cup body
1-3	Black silicone cover
1-4	Metal cup body



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Mechanical dishwashing safe test

Test Result of mechanical dishwashing safe test:

Requirements:For dishwasher safe test, if there is no noticeable change in appearance (e.g. color, size and shape) and function, it should be "PASS",

Sample No.:MO6257 (Black)

Test method: Refer BS EN 12875 -1-2005

Washing temperature: 60°C Number of cycle: 10 cycles

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

For all tested plastic or metal articles:

No visible change of color, gloss and clouding was found on the tested samples after wash.

No visible deposit or iridescent layer was found on the tested samples after wash.

No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)
rest ttem(s)	Omt	LIIIII	MDL	1-1
Cadmium(Cd)	mg/kg	100	10	N.D.
Co	Conformity			

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit Lin	Limit	MDL	Test Result(s)	
		Liiiit		1-1	1-2
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Co	Conformity	Conformity			



1. As specified by client, the submitted samples were mixed to test, the test points: 1-1

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.		
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.		
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.		
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.		
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.		
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.		
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.		
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.		
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.		
Co	Conclusion					

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1

Limit requirements of Phthalates

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
Test Item(s)	Ollit	LIIIII	MDL	1-1
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.



Test Item(s)	Unit	Limit	MDL	Test Result(s)
rest tieni(s)	Oilit	Lillit	MDL	1-1
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.
Co	onclusion			Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/



- Specific migration of heavy metal:

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

Unit: mg/kg

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			Test Result(s)	Unit: mg
Test Item(s)	Test condition/ Equipment	MDL	1 st + 2 nd extractives	Limit
	Equipment		1-4	
Barium (Ba)		0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	Artificial tap water,	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	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	/



			Test Result(s)	
Test Item(s)	Test condition/ Equipment	MDL	3 rd extractives	Limit
	Equipment		1-4	
Barium (Ba)		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
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	Artificial tap water,	0.005	N.D.	0.01
Nickel (Ni)	70℃, 2h ICP-OES	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	/



	Test Result		
Test point	Overall migration/ (mg/dm²)		Conclusion
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-3	N.D.	N.D.	Conformity
Limit	10	10	/
MDL	5	5	/

- Bisphenol A(BPA) content

Test Item	Bisphenol A (BPA)		
Limit(Client's Requirement) (mg/kg)	Absent		
MDL(mg/kg)	0.1		
Test Method/Instrument	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS		

Toot noint	Test Result (mg/kg)	Conclusion
Test point	Bisphenol A (BPA)	
1-3	N.D.	Conformity

- Specific migration of Bisphenol A(BPA)

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

- Volatile Organic Matter

Unit: %

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-3	
Volatile Organic Matter	200°C, 4h	0.1	0.36	0.5
Conclusion		/	Conformity	/



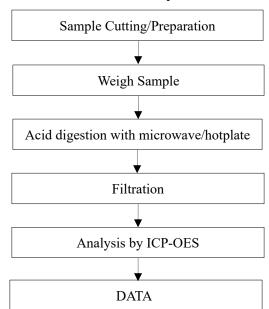
Unit: %

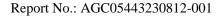
Test Item	MDL	Result(s) 1-3	Limit
Peroxide value	0.2	N.D.	Absent
Conclusion	/	Conformity	/

- Specific Migration of Organotin (measured as Tin)

Specific Migration of Organism (measured as 1 m)				
	Test Result			
Test point	Specific Migration of Organotin (measured as Tin)/ (mg/kg)	Conclusion		
	3% Acetic acid, 70°C,2h, EN 13130-2004			
1-3	N.D.	Conformity		
Limit	0.1	/		
MDL	0.01	/		

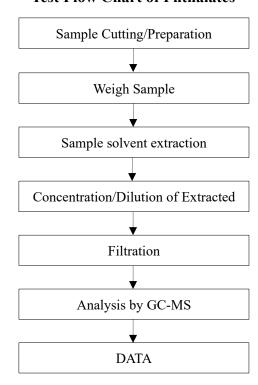
Test Flow Chart of Heavy Metal Content

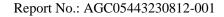






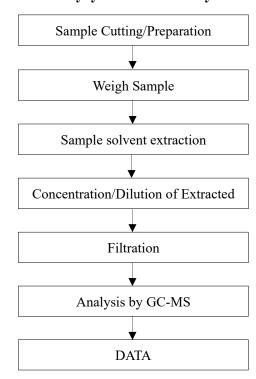
Test Flow Chart of Phthalates







Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)





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*** End of Report ***