
Test Report

Report No. : AGC05443250925-001S1

SAMPLE NAME : Dark sublimation mug
MODEL NAME : MO9156
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Apr. 01, 2026

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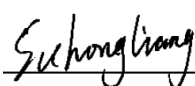
Applicant : MID OCEAN BRANDS B.V.
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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

Sample Name : Dark sublimation mug
Model : MO9156
Vendor code : 115649
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal
Sample Received Date : Sep. 15, 2025
Testing Period : Sep. 15, 2025 to Apr. 01, 2026
Test Requested : Selected test(s) as requested by client.

Test Requested:**Conclusion**

Microwave heating resistance test	Pass
Regulation 1935/2004/EC, Council Directive 84/500/EEC - Migration of Lead and Cadmium	Pass
DM-4B-COM-002-v01 for: - Extractable Lead and Cadmium	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 23 -Cadmium(Cd) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 - Phthalates Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content	Pass

Approved by: 

Suhongliang

Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Sep. 17, 2025	Invalid	Initial release
S1	Apr. 01, 2026	Valid	Add test

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The photo of the sample



The photo of AGC05443250925-001S1 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Inner white mug
1-2	Black rim
1-3	Black coating

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Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

Microwave heating resistance test

Test Result of microwave test		
Sample No.:MO9156、1-1、1-2		
Test method: Refer BS EN 15284 :007		
Microwave power out: 800 W		
Short period: 90 s		
Long period: 585 s		
Number of tested sample: 2 pc(s)		
Number of control sample: 1 pc(s)		
Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	45.6°C	73.6°C
2	45.8°C	77.7°C
For all tested ceramic articles: No visible change of color was found on the tested samples after test. No visible cracking, crazing, scaling was found on the tested samples after test.		

Regulation 1935/2004/EC, Council Directive 84/500/EEC

- Migration of Lead and Cadmium

Test Methods and Equipment: EN 1388-1: 1995; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-1
				A
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h; Soaking method: Internal soaking				
Lead	mg/L	4.0	0.1	N.D.
Cadmium	mg/L	0.3	0.01	N.D.
Conclusion				Conformity

Remark: Results shown above are testing data of one groups.

DM-4B-COM-002-v01 for:
- Extractable Lead and Cadmium

Test Methods and Equipment: EN 1388-1: 1995; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)			
				1-2			
				A	B	C	D
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h; Soaking method: Lip & Rim							
Lead	mg	2.0	0.1	N.D.	N.D.	N.D.	N.D.
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.
Conclusion				Conformity			

Remark: Results shown above are testing data of four groups.

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	Limit	MDL	Test Result(s)
				1-3
Lead(Pb)	mg/kg	500	10	N.D.
Conclusion				Conformity

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)
				1-3
Cadmium(Cd)	mg/kg	100	10	N.D.
Conclusion				Conformity

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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)
				1-3
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.
Conclusion				Conformity

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)
				1-3
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.
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.
Conclusion				Conformity

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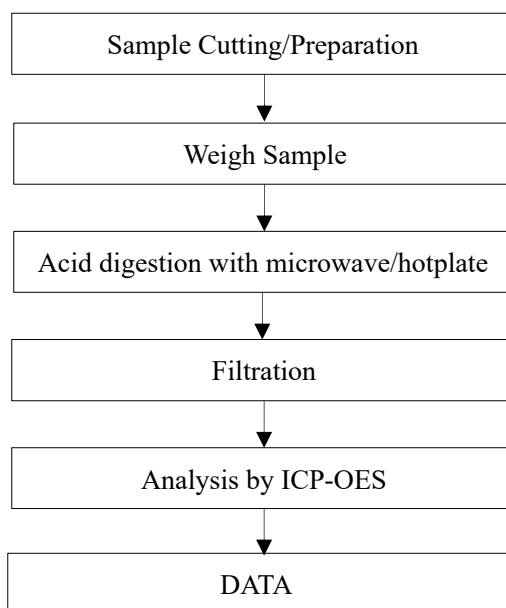
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Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

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	/	/

Test Flow Chart of Heavy Metal Content



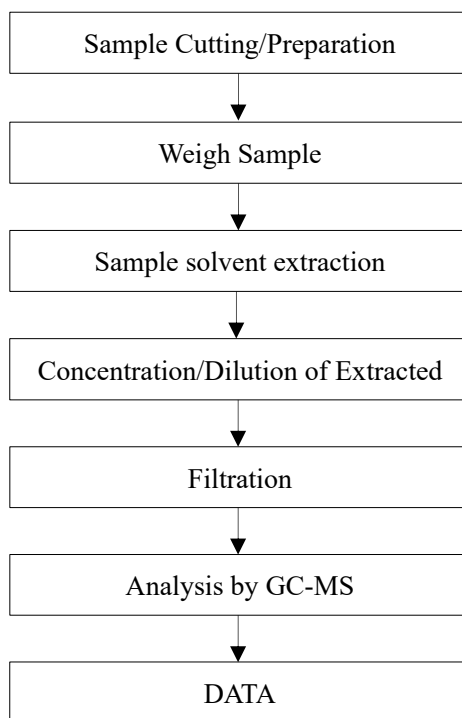
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Test Flow Chart of Phthalates

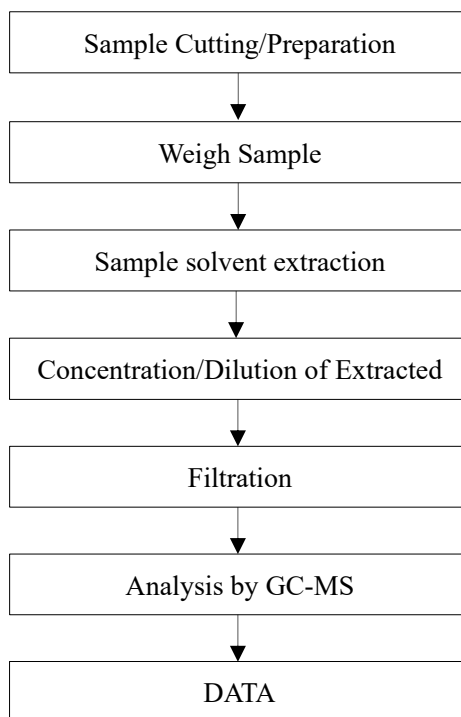


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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

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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.
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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.
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*** End of Report ***

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