
Test Report

Report No. : AGC05443250529-001

SAMPLE NAME : Christmas motif mug
MODEL NAME : CX1571
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : May 23, 2025

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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 : 5, 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 : Christmas motif mug
Model : CX1571
Vendor code : 115649
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal
Sample Received Date : May 20, 2025
Testing Period : May 20, 2025 to May 23, 2025
Test Requested : Selected test(s) as requested by client.

Test Requested:**Conclusion**

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
Microwave heating resistance test	Pass
Mechanical dishwashing safe test	Pass
Regulation 1935/2004/EC, Council Directive 84/500/EEC - Migration of Lead and Cadmium	Pass
DM-4B-COM-002-v01 - Leachable Lead & Cadmium (Lip & Rim)	Pass

Approved by: 
Suhongliang, Leon
Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 23, 2025	Valid	Initial release

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The photo of the sample



Test sample



Test sample



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Test Point Description

Test point	Test point description
1	Christmas motif mug
1-1	Box (Gift box)
1-2	Inside the ceramic cup body (Christmas stocking)
1-3	Outside the ceramic cup body (Christmas stocking)

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.

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)
				1-1
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)
				1-1
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)
				1-1
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%

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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)
				1-1
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

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	/	/

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Microwave heating resistance test

Test Result of microwave test

Sample No.: CX1571 1
Test method: Refer EN 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: 2 pc(s)

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	40.3°C	97.3°C
2	40.0°C	95.6°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.

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.: CX1571 1
Test method: Refer BS EN 12875 -1-2005
Washing temperature: 60°C
Number of cycle: 10 cycles
Number of tested sample: 2 pc(s).
Number of control sample: 1 pc(s).

For all tested ceramic or glass enamel articles:
No visible change of color and gloss was found on the tested samples after wash.
No visible deposit or iridescent layer was found on the tested samples after wash.
No cracking was found on the tested samples after wash.
No decoration was detached after wash.

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)
				1-2
				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 group.

DM-4B-COM-002-v01
- Leachable Lead & Cadmium (Lip & Rim)

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)			
				1-3			
				A	B	C	D
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h; Soaking method: Lip & Rim							
Lead	mg	2	0.01	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.

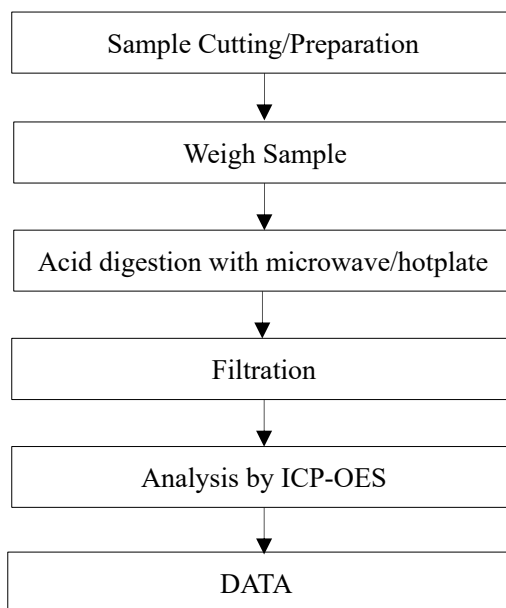
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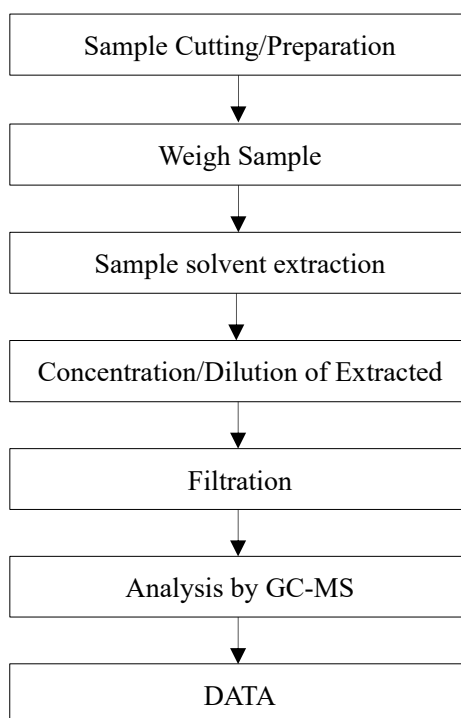
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates

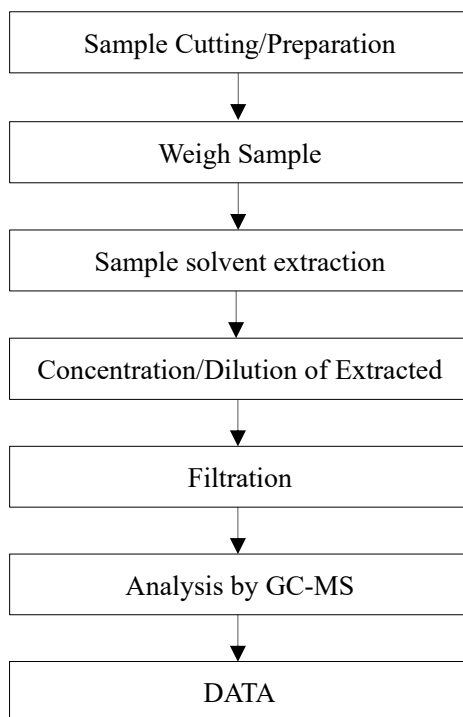


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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

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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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