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TEST REPORT

APPLICANT : Xindao B.V.

ADDRESS : P.O.Box 3082,2280 GB,Rijswijk,The Netherlands

SAMPLE DESCRIPTION : Foldable silicone cup

<u>ITEM NO.</u> : P432.60

SAMPLE RECEIVED DATE : 15-Dec-2021

SAMPLE RESUBMISSION DATE : 11-Feb-2022

TURN AROUND TIME : 15-Dec-2021 to 18-Feb-2022

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
Overall Migration	Pass
Specific Migration of Heavy Metal	Pass
Specific Migration of Primary Aromatic Amine	Pass
Volatile Organic Matter (VOM)	Pass
Peroxide Value	Pass
Sensorial Examination Odour and Taste Test	Pass

Eurofins (Shanghai) contact information

Customer service: RickyFang@eurofins.com/ 36202991

Sales specialist: WandyShen@eurofins.com/ +86 216 1819 181

******** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ************

Signed for and on behalf of

Tukioskon.

Eurofins Product Testing Service (Shanghai) Co., Ltd

Jackson Zhou

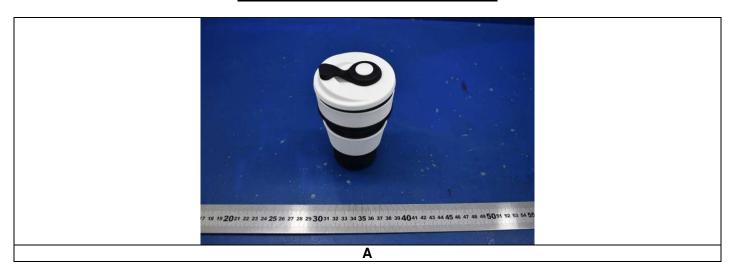
Chemical Lab Manager

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.



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TEST SAMPLE PHOTO(S)

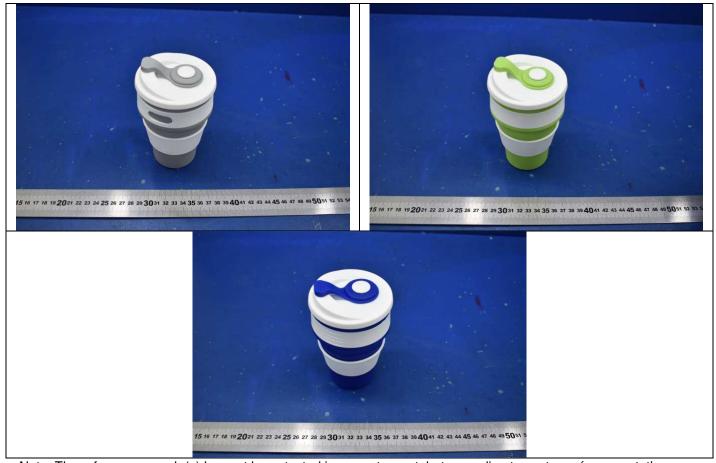


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REFERENCE SAMPLE PHOTO(S)



Note: The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".



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COMPONENT LIST

Component No.	Component	Sample No.
1	White PP lid	Α
2	Black silicone	Α



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TEST RESULT

Overall Migration

Test Requested: To determine the Overall Migration for compliance with Commission Regulation

(EU) No 10/2011 and its amendments relating to plastic materials and articles

intended to come into contact with foodstuffs.

Test Method: With reference to Regulation (EU) 10/2011 for selection of conditions and

EN1186-1:2002 for test methods;

or EN1186-3:2002 aqueous food simulants by total immersion method; or EN1186-9:2002 aqueous food simulants by article filling method;

or EN1186-2:2002 olive oil by total immersion method; or EN1186-8:2002 olive oil by article filling method;

or EN1186-14:2002 substitute test

Simulant used Time Temperat		Temperature	Max. Permissible	Result (mg/dm²)			
		-	Limit	1st Test	2 nd Test	3 rd Test	
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10 mg/dm ²	<3.0	<3.0	<3.0	
50% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10 mg/dm ²	<3.0	<3.0	<3.0	

Note:

- (1) mg/dm²=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (5) Analytical tolerance of fatty food simulants is 3 mg/dm²
- (6) Test condition & simulant were specified by client.



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TEST RESULT

Overall Migration

Test Requested: In accordance with Council of Europe Resolution AP (2004) 5.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;

or EN1186-3:2002 aqueous food simulants by total immersion method; or EN1186-9:2002 aqueous food simulants by article filling method;

or EN1186-2:2002 olive oil by total immersion method; or EN1186-8:2002 olive oil by article filling method;

or EN 1186-14:2002 substitute test

Simulant used	Time	Temperature	Max. Permissible	Result (mg/dm²) le 2			
			Limit	1st Test	2 nd Test	3 rd Test	
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10 mg/dm ²	<3.0	<3.0	<3.0	
50% Ethanol (V/V) Aqueous Solution	2hrs	70℃	10 mg/dm ²	<3.0	<3.0	<3.0	

Note:

- (1) mg/dm²=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (5) Analytical tolerance of fatty food simulants is 3 mg/dm²
- (6) Test condition & simulant were specified by client.



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TEST RESULT

Specific Migration of Heavy Metal

Test Requested: To determine the Specific Migration of Heavy metals, in accordance with Commission

Regulation (EU) No. 10/2011 and its amendments, for materials and articles intended to

come into contact with food and foodstuffs.

Test Method: With reference to EU 10/2011 for selection of test condition, with reference to BS EN

13130-1:2004 for sample preparation, analysis was performed by ICP-MS/ ICP-OES.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 70°C 2hours

	Max.		Result			
Test Item(s)	Permissible	Unit	MDL			
	limit			1st test	2 nd test	3 rd test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client.



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TEST RESULT

Specific Migration of Primary Aromatic Amines

Test Request: Specific migration of primary aromatic amines as specified in Commission Regulation (EU)

No 10/2011 and its amendments.

Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by UV-

VIS and LC-MS/MS.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 70°C 2hours

						Result	
Test Item(s)	CAS No.	Unit	Limit	MDL	1		
					1 st	2 nd	3 rd
					test	test	test
1,3-phenylenediamine	108-45-2	mg/kg	0.002	0.002	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	0.002	0.002	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	0.002	0.002	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	0.002	0.002	ND	ND	ND
3,3-dichlorobenzidine	91-94-1	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethoxybenzidine	119-90-4	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethylbenzidine	119-93-7	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylenedianiline	101-77-9	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylenendi-o-toluidine	838-88-0	mg/kg	0.002	0.002	ND	ND	ND
4,4-oxydianiline	101-80-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-thiodianiline	139-65-1	mg/kg	0.002	0.002	ND	ND	ND
4-amino-azobenzene	60-09-3	mg/kg	0.002	0.002	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	0.002	0.002	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	0.002	0.002	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	0.002	ND	ND	ND
4-methoxy-m- phenylenediamine	615-05-4	mg/kg	0.002	0.002	ND	ND	ND
4-methyl-m-phenylenediamine	95-80-7	mg/kg	0.002	0.002	ND	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	0.002	0.002	ND	ND	ND
benzidine	92-87-5	mg/kg	0.002	0.002	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	0.002	0.002	ND	ND	ND
o-anisidine	90-04-0	mg/kg	0.002	0.002	ND	ND	ND
o-toluidine	95-53-4	mg/kg	0.002	0.002	ND	ND	ND
Total of other Primary Aromatic Amines	-	mg/kg	0.01	0.01	ND	ND	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Total other primary aromatic amines are 1,4-phenylenediamine (CAS No.: 106-50-3), 2,4-dimethylaniline (CAS No.: 95-68-1), 2,6-dimethylaniline (CAS No.: 87-62-7), aniline (CAS No.: 62-53-3).



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TEST RESULT

Specific Migration of Primary Aromatic Amines

Test Request: Specific migration of primary aromatic amines as specified in Commission Regulation (EU)

No 10/2011 and its amendments.

Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by UV-

VIS and LC-MS/MS.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 70°C 2hours

						Result	
Test Item(s)	CAS No.	Unit	Limit	MDL		2	
					1 st	2 nd	3 rd
					test	test	test
1,3-phenylenediamine	108-45-2	mg/kg	0.002	0.002	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	0.002	0.002	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	0.002	0.002	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	0.002	0.002	ND	ND	ND
3,3-dichlorobenzidine	91-94-1	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethoxybenzidine	119-90-4	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethylbenzidine	119-93-7	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylenedianiline	101-77-9	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylenendi-o-toluidine	838-88-0	mg/kg	0.002	0.002	ND	ND	ND
4,4-oxydianiline	101-80-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-thiodianiline	139-65-1	mg/kg	0.002	0.002	ND	ND	ND
4-amino-azobenzene	60-09-3	mg/kg	0.002	0.002	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	0.002	0.002	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	0.002	0.002	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	0.002	ND	ND	ND
4-methoxy-m- phenylenediamine	615-05-4	mg/kg	0.002	0.002	ND	ND	ND
4-methyl-m-phenylenediamine	95-80-7	mg/kg	0.002	0.002	ND	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	0.002	0.002	ND	ND	ND
benzidine	92-87-5	mg/kg	0.002	0.002	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	0.002	0.002	ND	ND	ND
o-anisidine	90-04-0	mg/kg	0.002	0.002	ND	ND	ND
o-toluidine	95-53-4	mg/kg	0.002	0.002	ND	ND	ND
Total of other Primary Aromatic Amines	-	mg/kg	0.01	0.01	ND	ND	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Total other primary aromatic amines are 1,4-phenylenediamine (CAS No.: 106-50-3), 2,4-dimethylaniline (CAS No.: 95-68-1), 2,6-dimethylaniline (CAS No.: 87-62-7), aniline (CAS No.: 62-53-3).



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TEST RESULT

Volatile Organic Matter (VOM)

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of

September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to 61st Communication on testing of silicon in

Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz 46 (2003)

362.

Test Condition: 200°C 4hours

Test Item(s)	Limit	Unit	MDL	Result
rest item(s)	LIIIII	Oilit	MIDL	2
Volatile Organic Matter (VOM)	0.5	%(w/w)	0.1	0.17

Note:

(1) %w/w =percentage of weight by weight

(2) MDL = method detection limit

(3) ND = not detected (<MDL)

Peroxide Value

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of September

1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to European Pharmacopoeia part 2.5.5. Peroxide Value method A.

Test Item(s)	Limit	Result
est item(s)	Lillill	2
Peroxide Value	Absent	Absent



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TEST RESULT

Sensorial Examination Odour and Taste Test

Test Requested: In accordance with German Food, Articles of Daily Use and Feed Code of

September 1, 2005 (LFGB), Section 30 and 31, BfR recommendation.

Sensorial examination odour and taste test

Test Method: Robinson's test with reference to DIN 10955:1983 (2004)

Odour test condition: (23±2)°C for 24 hours

Taste test condition: 70°C 2 hours

Test media: Distilled water

No. of panelist: 6

Toot Itom(a)	Limit	Result
Test Item(s)	LIIIII	A
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour