

TEST REPORT

APPLICANT : Xindao B.V.

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

SAMPLE DESCRIPTION : Easy clean vacuum coffee tumbler

ITEM NO. : P432.90

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 07-Aug-2018

FURTHER INFORMATION DATE : 20-Aug-2018

TURN AROUND TIME : 07-Aug-2018 to 20-Aug-2018

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

TEST REQUESTED/TEST METHOD/REGULATION	RESULT
Overall Migration/(EU) No 10/2011 and its amendment	Pass
Specific Migration of Heavy Metals/(EU) No 10/2011 and its amendment	Pass
Specific Release of Heavy Metals/CM/Res (2013)9	Pass
Specific Migration of Bisphenol-A/(EU) No 10/2011 and its amendment	Pass

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 china.complaint@eurofins.com and referring to this report number.

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

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Joyce Liu
Lab Manager

SAMPLE PHOTO(S)



EFSH18080626-CG-02

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Black PP lid
2	Translucent white silicone ring
3	Silver Stainless steel inner

*** TO BE CONTINUED ***

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 : By reference to EU 10/2011 for selection of test condition;
With reference to EN 1186-1:2002 for selection of 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 Limit (mg/dm ²)	Result (mg/dm ²)		
				1	2	3
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10	5.3	<3.0	<3.0
10% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10	3.6	<3.0	<3.0
95% Ethanol (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2hrs	60°C	10	6.8	9.7	<3.0
Isooctane (Rectified Olive Oil Substitute)	0.5hr	40°C	10	4	<3.0	<3.0

TO BE CONTINUED

TEST RESULT

Specific Migration of Heavy Metal

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, Commission Regulation (EU) No. 10/2011 and its amendment Regulation (EU) 2017/752

Test Method : With reference to Regulation (EU) 10/2011 and its amendment Regulation (EU) 2016/1416 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-OES.

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

Test condition: 70°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result	
				1	2
Aluminium	1	mg/kg	0.1	ND	ND
Barium	1	mg/kg	0.25	ND	ND
Cobalt	0.05	mg/kg	0.05	ND	ND
Copper	5	mg/kg	0.25	ND	ND
Iron	48	mg/kg	0.25	ND	ND
Lithium	0.6	mg/kg	0.5	ND	ND
Manganese	0.6	mg/kg	0.05	ND	ND
Zinc	25	mg/kg	0.5	ND	ND
Nickel	*0.02	mg/kg	0.01	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.
- (5) "**", Requirement for migration of Nickel is 0.02mg/kg for (EU) 2017/752.

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Requested : In accordance with CM/Res (2013)9 on metals and alloys used in food contact materials and articles.

Test Method : Samples were prepared at specific condition, analysed by using ICP-OES/ICP-MS.

Simulant Used: 0.5% citric acid

Test Condition: 70°C 2hours

Test Item(s)	Unit	MDL	Result			
			3			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Magnesium(Mg)	mg/kg	0.1	ND	-	ND	-
Manganese (Mn)	mg/kg	0.2	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin ³ (Sn)	mg/kg	5	ND	700	ND	100
Titanium(Ti)	mg/kg	0.1	ND	-	ND	-
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001

Note:

- (1) mg/kg =milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)
- (4) SRL = Specific Release Limit
- (5) *1 Compliance is established on the result from the third migration test for repeated used articles.
- (6) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
- (7) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)
- (8) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Migration of Bisphenol-A(BPA)

Test Requested : To determine the Specific Migration of Bisphenol-A (BPA) 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 test condition and EN 13130-1:2004 for test preparation method; analysis was performed by HPLC-MS

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

Test Condition: 70°C 2hours

Test Item(s)	Limit	Unit	MDL	Result
				1
Specific Migration of Bisphenol-A(BPA)	0.6	mg/kg	0.02	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.

***END OF THE REPORT ***