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TEST REPORT

APPLICANT : Xindao B.V.

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

SAMPLE DESCRIPTION : Teako tea pot

<u>ITEM NO.</u> : P263.05

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 07-Sep-2015

TURN AROUND TIME : 07-Sep-2015 to 16-Sep-2015, 7 working days

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	RESULT
- Overall Migration	Pass
- Specific Migration of Heavy Metal	Pass
- Specific Release of Heavy Metals	Pass
- Bisphenol-A (BPA) Content	See Test Result
- Total Cadmium Content	Pass
- Pentachlorophenol (PCP) Content	Pass
- PAH Limit according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
- Polycyclic Aromatic Hydrocarbons (PAHs) - REACH Annex XVII, entry 50	Pass

Eurofins (Shanghai) contact information

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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

Terric Ji Lab Manager

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 sh.info@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.



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SAMPLE PHOTO



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COMPONENT LIST

Component No.	Component			
1	Black PP lid			
2	Grey silicone			
3	Silvery metal body			
4	Wood handle			



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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 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 EN1186-14:2002 substitute test

Simulant Used	Test Condition	Max. Permissible Limit (mg/kg)	Test Result (mg/kg)
3% Acetic Acid (W/V) Aqueous Solution	4hours at 100°C	60	<20
50% Ethanol (V/V) Aqueous Solution	4hours at 100°C	60	<20

Note:

- (1) mg/kg = milligram per kilogram
- (2) Analytical tolerance of aqueous simulants is 6 mg/kg
- (3) Analytical tolerance of fatty food simulants is 20 mg/kg
- (4) 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.

For material: Silicone rubber – Overall migration test.

Test Method: With reference to EN 1186-1:2002 for selection of conditions and test methods;

or EN 1186-3:2002 aqueous food simulants by total immersion method; or EN 1186-9:2002 aqueous food simulants by article filling method;

or EN 1186-2:2002 olive oil by total immersion method; or EN 1186-8:2002 olive oil by article filling method;

or EN 1186-14:2002 substitute test.

Simulant Used	Test Condition	Max. Permissible Limit (mg/kg)	Test Result (mg/kg)
3% Acetic Acid (W/V) Aqueous Solution	4hours at 100°C	60	<20
50% Ethanol (V/V) Aqueous Solution	4hours at 100°C	60	<20

Note:

- (1) mg/kg = milligram per kilogram
- (2) Analytical tolerance of aqueous simulants is 6mg/kg
- (3) Analytical tolerance of fatty food simulants is 20mg/kg
- (4) Test condition & simulant were specified by client.



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TEST RESULT

Specific Migration of Heavy Metal

To determine the Specific Migration of Heavy Metal for compliance with Test Requested:

Commission Regulation (EU) No 10/2011 and its amendments on plastic

materials and articles intended to come into contact with food.

Test Method: With reference to EU 10/2011 for selection of test method; analysis was

performed by ICP-OES.

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

Test condition: 100°C 4hours

Test Item(s)	Max. Permissible	Unit	MDL	Test Result		
rest item(s)	limit Sint MDE	IVIDE	1	2		
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	

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 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: 100°C 4hours

		MDL	Result 3						
Test Item(s)	Unit		1 st + 2 nd	Migration	on 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	0.09	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			
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	0.05	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			
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 (TI)	mg/kg	0.00005	ND	0.0007	ND	0.0001			

Note:

- (1) mg/kg =milligram per kilogram
- (2) M.D.L. = method detection limit
- (3) ND = not detected, less than M.D.L.
- (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



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TEST RESULT

Bisphenol-A (BPA) Content

Test method : Extraction with organic solvent, analysis by GC/MS and LC/MS.

Tested Item(s)	Unit	MDL	Test Result
rested itelli(s)	Oilit	Offic Wide	1
BPA	mg/kg	0.1	ND

Note:

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

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) No 835/2012

amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1122:2001 Method B, EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996

Acid digestion/ microwave digestion method was used and total cadmium content was

determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result		
resteu item(s)	Oilit	Lilling	MIDL	1	2	
Total Cadmium	%	0.01	0.0005	ND	ND	

Remark:

MDL = method detection limit ND = Not detected, less than MDL

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol (PCP) content as specified in entry 22 of annex XVII of REACH

Regulation (EC) No 1907/2006.

Test Method: With reference to ISO 17070:2015, analysis was performed by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
rested item(s)	CAS NO.	Oilit	Lilling	MDL	4
Pentachlorophenol (PCP)	87-86-5	mg/kg	1000	0.5	ND

Remark:

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



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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS

Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS)

with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive

2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Davas atau	CACNA	l lmi4	Result
Parameter	CAS No.	Unit	1
Benzo(a)pyrene	50-32-8	mg/kg	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND
Chrysene	218-01-9	mg/kg	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.301
Naphthalene	91-20-3	mg/kg	ND
Sum 18 PAHs	-	mg/kg	0.301
Summary to above mentioned requirement:	For Category 2 (Other product ProdSG)		Pass

Note:

mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg



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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS

Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS)

with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive

2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Davamatav	CACNA	11	Result
Parameter	CAS No.	Unit	2
Benzo(a)pyrene	50-32-8	mg/kg	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND
Chrysene	218-01-9	mg/kg	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND
Naphthalene	91-20-3	mg/kg	ND
Sum 18 PAHs	-	mg/kg	ND
Summary to above mentioned requirement:	For Category	I	Pass

Note:

mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg



products under ProdSG.

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TEST RESULT

Table 1AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other

Category 1 Category 2 Category 3 Materials indented to Materials not covered by Materials not covered be put in the mouth, or category 1, with by category 1 or 2 with materials of toys for foreseeable skin contact foreseeable skin children with for longer than 30 contact up to 30 foreseeable skin seconds (long-term skin seconds (short term Unit contact for longer than contact) or short-term skin contact) Parameter 30 seconds (long-term repetitive contact with skin contact) the human skin Other Other Toys under Toys under products products Directive Directive under under 2009/48/EC 2009/48/EC ProdSG ProdSG <0.2 Benzo(a)pyrene mg/kg < 0.2 <0.5 <0.5 <1 <0.2 <0.2 <0.5 <0.5 <1 Benzo(e)pyrene mg/kg < 0.2 <0.2 < 0.5 <0.5 Benzo(a)anthracene mg/kg <1 Benzo(b)fluoranthene < 0.2 < 0.2 < 0.5 <0.5 <1 mg/kg Benzo(j)fluoranthene <0.2 <0.2 <0.5 <0.5 <1 mg/kg Benzo(k)fluoranthene <0.2 <0.2 <0.5 <0.5 <1 mg/kg <0.2 <0.5 <0.5 Chrysene mg/kg < 0.2 <1 <0.2 <0.5 Dibenzo(a,h)anthracene <0.5 <1 < 0.2 mg/kg Benzo(ghi)pervlene mg/kg < 0.2 < 0.2 < 0.5 < 0.5 <1 Indeno(1,2,3-cd)pyrene < 0.2 <0.5 <0.5 mg/kg < 0.2 <1 Acenaphthene, Acenaphthylene, <1 <5 <10 <20 <50 Fluorene, Phenanthrene, mg/kg Sum* Sum* Sum* Sum* Sum* Pyrene. Anthracene, Fluoranthene Naphthalene mg/kg <1 <2 <10 <10 Sum* 18 PAHs mg/kg <1 <5 <20 <50

^{* =} Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.



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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326

amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and determination by Gas Chromatography Mass Spectrometry (GC-MS).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Re	sult		
rested item(s)	CAS NO.	Ullit	Lilling	MDL	1	2		
For rubber or plastic will direct contact with skin and mouth.								
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND		
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND		
Benzo(b)fluoranthene	205-99-2	ma/ka	4	0.2	ND	ND		
Benzo(j)fluoranthene	205-82-3	mg/kg	ı	0.2	ND	ND		
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND		
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND		
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND		
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND		

Remark:

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

*** END OF THE REPORT ***