

TEST REPORT

Applicant: XINDAO BV
VERRIJN STUARTLAAN 1D
2288 EK RIJSWIJK
NETHERLANDS

Number: HKGH0229022001

Date: May 31, 2018

Attn: KELVIN ZHOU SHUN ZONG

Submitted sample said to be

Item Name

Item No.

Quantity

Packaging Provided

:
: BBQ set with hamburger press and brush
: P422.401
: 1 set
: No



For and on behalf of :
Intertek Testing Services HK Ltd.



Angel Y.F. Cheung
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) Council of Europe Resolution CM/Res (2013) 9 on Metals and Alloys used in Food Contact Materials and Articles - Migration of Metal Content	Pass
(2) French Arrête of November 25, 1992 Article 6 relating to Materials and Objects Made of Silicone Elastomers intended to come into contact with food products and French Decree 2007-766 - Total migration	See details enclosed
(3) French Arrête of November 25, 1992 Article 6 relating to Materials and Objects Made of Silicone Elastomers intended to come into contact with food products and French Decree 2007-766 - Volatile organic matter	Pass
(4) French Arrête of November 25, 1992 Article 6 relating to Materials and Objects Made of Silicone Elastomers intended to come into contact with food products and French Decree 2007-766 - Peroxides	Pass
(5) French Arrête of November 25, 1992 Article 6 relating to Materials and Objects Made of Silicone Elastomers intended to come into contact with food products and French Decree 2007-766 - Specific migration of tin	Pass
(6) French DGCCRF Document related to Metals and Alloys - Overall Migration	Pass
(7) French DGCCRF Document related to Metals and Alloys - Migration of Metal Content	Pass
(8) French DGCCRF Document related to Metals and Alloys - Specific Migration of Chromium VI	Pass
(9) Applicant's requirement - Total Lead (Pb) Content	See details enclosed
(10) Applicant's requirement - Total Cadmium (Cd) Content	See details enclosed
(11) Applicant's requirement - Total Arsenic (As) Content	See details enclosed



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(1) Migration of Metal Content

Test method: Council of Europe Resolution CM/Res (2013) 9 on Metals and Alloys used in Food Contact Materials and Articles

Food simulant	Temperature	Time
0.5% (w/v) citric acid	40°C	0.5 hour

Element	Results obtained from sum of 1 st & 2 nd migration in mg/kg	Limit in mg/kg
	(1)	
Aluminium (Al)	< 0.1	35
Antimony (Sb)	< 0.01	0.28
Arsenic (As)	< 0.001	0.014
Barium (Ba)	< 0.1	8.4
Beryllium (Be)	< 0.001	0.07
Cadmium (Cd)	< 0.001	0.035
Chromium (Cr)	< 0.1	1.75
Cobalt (Co)	< 0.01	0.14
Copper (Cu)	< 0.1	28
Iron (Fe)	< 5	280
Lead (Pb)	< 0.01	0.07
Lithium (Li)	< 0.02	0.336
Manganese (Mn)	< 0.1	12.6
Mercury (Hg)	< 0.001	0.021
Molybdenum (Mo)	< 0.01	0.84
Nickel (Ni)	< 0.01	0.98
Silver (Ag)	< 0.02	0.56
Thallium (Tl)	< 0.0001	0.0007
Tin (Sn)	< 5	700
Vanadium (V)	< 0.005	0.07
Zinc (Zn)	< 1	35



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Element	Result obtained from 3 rd migration in mg/kg	Limit in mg/kg
	(1)	
Aluminium (Al)	< 0.1	5
Antimony (Sb)	< 0.01	0.04
Arsenic (As)	< 0.001	0.002
Barium (Ba)	< 0.1	1.2
Beryllium (Be)	< 0.001	0.01
Cadmium (Cd)	< 0.001	0.005
Chromium (Cr)	< 0.1	0.250
Cobalt (Co)	< 0.01	0.02
Copper (Cu)	< 0.1	4
Iron (Fe)	< 5	40
Lead (Pb)	< 0.01	0.010
Lithium (Li)	< 0.02	0.048
Manganese (Mn)	< 0.1	1.8
Mercury (Hg)	< 0.001	0.003
Molybdenum (Mo)	< 0.01	0.12
Nickel (Ni)	< 0.01	0.14
Silver (Ag)	< 0.02	0.08
Thallium (Tl)	< 0.0001	0.0001
Tin (Sn)	< 5	100
Vanadium (V)	< 0.005	0.01
Zinc (Zn)	< 1	5

Tested component :
(1) Metal with black coating (Hamburger press) (Aluminum alloy with non-stick coating).

Date sample received : Apr 28, 2018
Testing period : Apr 28, 2018 to May 17, 2018



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(2) Total Migration

Test Standard : EEC Commission Directive 82/711/EEC, 85/572/EEC and its amendment.

I. Test condition :

Aqueous food simulant	
Time	Temperature
0.5 hour	40 °C

Fatty food simulant & Modified Polyphenylene oxide	
Time	Temperature
0.5 hour	40 °C

II. Test Results :

Tested component	Result in mg/dm ²			
	3% (w/v) acetic acid	10% (v/v) ethanol	Fatty food simulant	Modified Polyphenylene oxide
(1)	2	1	<1	<1
Limit (mg/dm ²)	10	10	10	10

Tested component :

(1) Black plastic (brush) (silicone).

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 17, 2018, May 23, 2018 to May 28, 2018



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(3) Volatile Organic Matter

Test Method : By Gravimetric analysis.

Tested component	Result %(w/w)	Requirement % (w/w)
(1)	0.28	0.5

Tested Component :

(1) Black plastic (brush) (silicone).

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 17, 2018

(4) Peroxides

Test Method : By Chemical analysis.

Tested component	Result	Requirement
(1)	Negative	No positive reaction to peroxides

Tested component :

(1) Black plastic (brush) (silicone).

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 17, 2018

(5) Specific Migration of Tin

Test Method : Migration test was performed on the tested sample at appropriate time and temperature and then the test solution was analysed for tin content by Inductively Coupled Plasma Spectrometry (ICP).

Tested component	Result in mg/kg	Requirement in mg/kg
(1)	< 0.05	0.1

Tested Component :

(1) Black plastic (brush) (silicone).

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Testing period : Apr 28, 2018 to May 17, 2018



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(6) Overall Migration

Test method : French DGCCRF Document related to Metals and Alloys and Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition :

Aqueous food simulant
Time and temperature
2 hours at 70 °C

II. Test result :

Tested component	Result in mg/dm ²
	3% (w/v) acetic acid
(1)	<1
Limit in mg/dm ²	10

Tested component :

(1) Metal with black coating (Hamburger press) (Aluminum alloy with non-stick coating).

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(7) Migration of Metal Content

Test method: French DGCCRF Document related to Metals and Alloys.

Food simulant	Temperature	Time
0.5% (w/v) citric acid	40°C	0.5 hour

Element	Results obtained from sum of 1 st & 2 nd migration in mg/kg	Limit in mg/kg
	(1)	
Aluminium (Al)	< 0.1	35
Antimony (Sb)	< 0.01	0.28
Arsenic (As)	< 0.001	0.014
Barium (Ba)	< 0.1	8.4
Beryllium (Be)	< 0.001	0.07
Cadmium (Cd)	< 0.001	0.035
Chromium (Cr)	< 0.1	1.75
Cobalt (Co)	< 0.01	0.14
Copper (Cu)	< 0.1	28
Iron (Fe)	< 5	280
Lead (Pb)	< 0.01	0.07
Lithium (Li)	< 0.02	0.336
Manganese (Mn)	< 0.1	12.6
Mercury (Hg)	< 0.001	0.021
Molybdenum (Mo)	< 0.01	0.84
Nickel (Ni)	< 0.01	0.98
Silver (Ag)	< 0.02	0.56
Thallium (Tl)	< 0.0001	0.0007
Tin (Sn)	< 5	700
Vanadium (V)	< 0.005	0.07
Zinc (Zn)	< 1	35



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Element	Result obtained from 3 rd migration in mg/kg	Limit in mg/kg
	(1)	
Aluminium (Al)	< 0.1	5
Antimony (Sb)	< 0.01	0.04
Arsenic (As)	< 0.001	0.002
Barium (Ba)	< 0.1	1.2
Beryllium (Be)	< 0.001	0.01
Cadmium (Cd)	< 0.001	0.005
Chromium (Cr)	< 0.1	0.250
Cobalt (Co)	< 0.01	0.02
Copper (Cu)	< 0.1	4
Iron (Fe)	< 5	40
Lead (Pb)	< 0.01	0.010
Lithium (Li)	< 0.02	0.048
Manganese (Mn)	< 0.1	1.8
Mercury (Hg)	< 0.001	0.003
Molybdenum (Mo)	< 0.01	0.12
Nickel (Ni)	< 0.01	0.14
Silver (Ag)	< 0.02	0.08
Thallium (Tl)	< 0.0001	0.0001
Tin (Sn)	< 5	100
Vanadium (V)	< 0.005	0.01
Zinc (Zn)	< 1	5

Tested component :

(1) Metal with black coating (Hamburger press) (Aluminum alloy with non-stick coating).

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(8) Specific Migration of Chromium (VI)

Test method : French DGCCRF Document related to Metals and Alloys and Commission Regulation (EU) No. 10/2011 and its amendments.

Tested component	Result (ug/dm ²)	Limit (ug/dm ²)
(1)	< 0.01	5

Tested component :

(1) Metal with black coating (Hamburger press) (Aluminum alloy with non-stick coating).

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 17, 2018

(9) Total Lead (Pb) Content

Test Method : Acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm
(1)	220

ppm = part per million = mg/kg

Tested Component :

(1) Silver color metal with black coating (BBQ set) .

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 26, 2018



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(10) Total Cadmium (Cd) Content

Test Method : Acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm
(1)	<5

ppm = part per million = mg/kg

Tested Component :

(1) Silver color metal with black coating (BBQ set) .

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 26, 2018

(11) Total Arsenic (As) Content

Test Method : Acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm
(1)	<10

ppm = part per million = mg/kg

Tested Component :

(1) Silver color metal with black coating (BBQ set) .

Date sample received : Apr 28, 2018

Testing period : Apr 28, 2018 to May 26, 2018

End of report

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