

Test Report

Report No.: 180507056GZU-001

Date: May 24, 2018

Applicant: Zhongshan Gentech Electric Appliance Co., Ltd

Donghe Road, XiaoLi District, Dongfeng Town, Zhongshan City,
Guangdong, China

Sample Description:

The following submitted sample(s) said to be:

Item Name	:	Oven
Model No.	:	JK1901-R
Ref. No.	:	See appendix
Date of Sample Received	:	May 08, 2018
Testing Period	:	May 08, 2018 to May 18, 2018

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

According to the test results of below test parameters, the submitted sample complied with the food contacting requirements for §30 and §31 LFGB and Regulation (EC) 1935/2004.

Authorized by:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:



Martin He
Senior Project Engineer

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Based on the assessment of the submitted sample and the information provided, the following tests had been conducted :

<u>Tested parameters</u>	<u>Result</u>
1) Sensory test	Pass
2) Determination of heavy metal release on metal	Pass
3) Specific migration of primary aromatic amines	Pass
4) Specific migration of formaldehyde	Pass
5) Specific migration of phenol	Pass
6) Specific migration of 1,4-Dihydroxybenzene	Pass
7) Specific migration of PFOS& PFOA	Pass
8) Specific Migration of Bisphenol A	Pass



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Tests Conducted

Tested components:

- (1) Oven
- (2) Black enamel on metal
- (3) Silver color metal coating on metal

1 Sensory Evaluation

With reference to §64 LFGB L00.90-6.

Sample was cleaned according to the product's instruction manual or in the absence of such manual with distilled water. Food simulant was filled in the sample under below mentioned time and temperature. Odour and taste was evaluated with 6 panelists using control sample of food simulant.

I. Test condition:

<u>Food Simulant</u>	<u>Test Temperature</u>	<u>Test Duration</u>
Distilled water	100°C	4hours

II. Result:

<u>Test Item</u>	<u>Result</u>	<u>Limit</u>
	(1)	
Appearance of simulant	Clear and colourless	Clear and colourless
Odour of simulant	1	< 3.0 (No significant deterioration)
Taste of simulant	1	< 3.0 (No significant deterioration)

Evaluation Scale: 0= no aberration, neutral
 1= very slight deterioration, barely perceivable
 2= slight deterioration
 3= significant deterioration
 4= strong deterioration



2 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS) with reference to ISO 11885:2007 and ISO 17294-2:2003 respectively.

I. Test Condition:

Temperature: 100 °C Time: 4hours

II. Test Result:

Food simulant: Citric acid (5 g/L)

Tested component (2) :							
Elements	Result 1 st test (mg/kg)	Result 2 nd test (mg/kg)	Result 1 st test+Result 2 nd test (mg/kg)	Result 3 rd test (mg/kg)	Detection Limit (mg/kg)	7*Limit (mg/kg)	Limit (mg/kg)
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	ND	ND	ND	ND	1	35	5
Chromium (Cr)	ND	ND	ND	ND	0.02	1.75	0.250
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	ND	ND	ND	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	12.6	1.8
Molybdenum(Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.1	0.91	0.14
Tin (Sn)	ND	ND	ND	ND	10	700	100
Vanadium (V)	ND	ND	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	ND	ND	1	35	5
Antimony (Sb)	ND	ND	ND	ND	0.01	0.28	0.04
Arsenic (As)	ND	ND	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	ND	ND	0.1	8.4	1.2
Beryllium (Be)	ND	ND	ND	ND	0.01	0.07	0.01
Cadmium (Cd)	ND	ND	ND	ND	0.001	0.035	0.005
Lead (Pb)	ND	ND	ND	ND	0.005	0.070	0.010
Lithium (Li)	ND	ND	ND	ND	0.010	0.336	0.048
Mercury (Hg)	ND	ND	ND	ND	0.003	0.021	0.003
Thallium (Tl)	ND	ND	ND	ND	0.0001	0.0007	0.0001
Magnesium(Mg)	ND	ND	ND	ND	1	-	-
Titanium(Ti)	ND	ND	ND	ND	1	-	-



Tested component (3) :							
Elements	Result 1 st test (mg/kg)	Result 2 nd test (mg/kg)	Result 1 st test+Result 2 nd test (mg/kg)	Result 3 rd test (mg/kg)	Detection Limit (mg/kg)	7*Limit (mg/kg)	Limit (mg/kg)
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	ND	ND	ND	ND	1	35	5
Chromium (Cr)	0.09	0.05	0.14	0.03	0.02	1.75	0.250
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	2	7	9	7	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	12.6	1.8
Molybdenum(Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.1	0.91	0.14
Tin (Sn)	ND	ND	ND	ND	10	700	100
Vanadium (V)	ND	ND	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	ND	ND	1	35	5
Antimony (Sb)	ND	ND	ND	ND	0.01	0.28	0.04
Arsenic (As)	ND	ND	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	ND	ND	0.1	8.4	1.2
Beryllium (Be)	ND	ND	ND	ND	0.01	0.07	0.01
Cadmium (Cd)	ND	ND	ND	ND	0.001	0.035	0.005
Lead (Pb)	ND	ND	ND	ND	0.005	0.070	0.010
Lithium (Li)	ND	ND	ND	ND	0.010	0.336	0.048
Mercury (Hg)	ND	ND	ND	ND	0.003	0.021	0.003
Thallium (Tl)	ND	ND	ND	ND	0.0001	0.0007	0.0001
Magnesium(Mg)	ND	ND	ND	ND	1	-	-
Titanium(Ti)	ND	ND	ND	ND	1	-	-

ND = Not detected

Remark: The submitted sample is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test < 7 * limit) and the Result 3rd test shouldn't exceed the limit.



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3 Specific Migration for black enamel

By UV-Visible Spectrophotometer and Liquid Chromatography (LC) and Liquid Chromatographic - Tandem Mass Spectrometric (LC-MS/MS) analysis.

	Test Item	Result	Detection Limit	Limit
		(2)		
(1)	Phenol	ND	0.05 mg/dm ²	0.05 mg/dm ² (max.)
(2)	Primary Aromatic Amines	ND	<0.01 mg/kg	ND (<0.01 mg/kg)
(3)	Formaldehyde	ND	1 mg/kg	15 mg/kg (max.)
(4)	1,4-Dihydroxybenzene	ND	0.1 mg/kg	0.6 mg/kg (max.)
(5)	Perfluorooctane Sulfonates (PFOS)	ND	0.005 mg/dm ²	---
	Perfluorooctanoic Acid (PFOA)	ND	0.005 mg/dm ²	---
	Total of PFOS and PFOA	ND	0.005 mg/dm ²	0.005 mg/dm ² (max.)

ND = Not detected

4 Specific Migration of Bisphenol A Test for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No.10/2011 and DD CEN/TS 13130-13:2005.

I. Test condition:

Food simulant	Time(hour)	Temperature(°C)
3% (w/v) Acetic acid	4	100

II. Test result:

Food Simulant	Result(mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	(2)		
3% (w/v) Acetic acid	ND	0.10	0.6

ND = Not detected





Appendix

Ref. No.:

JK06B-01	JK06A-01	JK30A01-H	JK30B01-H	JK09C-01
JK06B-02	JK06A-02	JK30A01-RH	JK30B01-RH	JK09C-02
JK09B-01	JK09A-01	JK30A01-MH	JK30B01-MH	JK16C01
JK09B-02	JK09A-02	JK30A01-RMH	JK30B01-RMH	JK16C01-R
JK09D-01	JK09C-01	JK30A01-HL	JK30B01-HL	JK16C01-M
JK09D-02	JK09C-02	JK30A01-RHL	JK30B01-RHL	JK16C01-RM
JK16B01	JK16A01	JK30A01-MHL	JK30B01-MHL	JK16C01-L
JK16B01-R	JK16A01-R	JK30A01-RMHL	JK30B01-RMHL	JK16C01-RL
JK16B01-M	JK16A01-M	JK30A02-H	JK30B02-H	JK16C01-ML
JK16B01-RM	JK16A01-RM	JK30A02-RH	JK30B02-RH	JK16C01-RML
JK16B01-L	JK16A01-L	JK30A02-MH	JK30B02-MH	JK19C01
JK16B01-R	JK16A01-R	JK30A02-RMH	JK30B02-RMH	JK19C01-R
JK16B01-ML	JK16A01-ML	JK30A02-HL	JK30B02-HL	JK19C01-M
JK16B01-RML	JK16A01-RML	JK30A02-RHL	JK30B02-RHL	JK19C01-RM
JK19B01	JK19A01	JK30A02-MHL	JK30B02-MHL	JK19C01-L
JK19B01-R	JK19A01-R	JK30A02-RMHL	JK30B02-RMHL	JK19C01-RL
JK19B01-M	JK19A01-M	JK38A01-H	JK38B01-H	JK19C01-ML
JK19B01-RM	JK19A01-RM	JK38A01-RH	JK38B01-RH	JK19C01-RML
JK19B01-L	JK19A01-L	JK38A01-MH	JK38B01-MH	JK25C01
JK19B01-R	JK19A01-R	JK38A01-RMH	JK38B01-RMH	JK25C01-R
JK19B01-ML	JK19A01-ML	JK38A01-HL	JK38B01-HL	JK25C01-M
JK19B01-RML	JK19A01-RML	JK38A01-RHL	JK38B01-RHL	JK25C01-RM
JK25B01	JK25A01	JK38A01-MHL	JK38B01-MHL	JK25C01-L
JK25B01-R	JK25A01-R	JK38A01-RMHL	JK38B01-RMHL	JK25C01-RL
JK25B01-M	JK25A01-M	JK38A02-H	JK38B02-H	JK25C01-ML
JK25B01-RM	JK25A01-RM	JK38A02-RH	JK38B02-RH	JK25C01-RML
JK25B01-L	JK25A01-L	JK38A02-MH	JK38B02-MH	JK25C02-R
JK25B01-R	JK25A01-R	JK38A02-RMH	JK38B02-RMH	JK25C02-M
JK25B01-ML	JK25A01-ML	JK38A02-HL	JK38B02-HL	JK25C02-RM
JK25B01-RML	JK25A01-RML	JK38A02-RHL	JK38B02-RHL	JK25C02-L
JK25B02-R	JK25A02-R	JK38A02-MHL	JK38B02-MHL	JK25C02-RL
JK25B02-M	JK25A02-M	JK38A02-RMHL	JK38B02-RMHL	JK25C02-ML
JK25B02-RM	JK25A02-RM	JK48A01-H	JK48B01-H	JK25C02-RML
JK25B02-L	JK25A02-L	JK48A01-RH	JK48B01-RH	JK30C01



JK25B02-R	JK25A02-R	JK48A01-MH	JK48B01-MH	JK30C01-R
JK25B02-ML	JK25A02-ML	JK48A01-RMH	JK48B01-RMH	JK30C01-M
JK25B02-RML	JK25A02-RML	JK48A01-HL	JK48B01-HL	JK30C01-RM
JK30B01	JK30A01	JK48A01-RHL	JK48B01-RHL	JK30C01-L
JK30B01-R	JK30A01-R	JK48A01-MHL	JK48B01-MHL	JK30C01-RL
JK30B01-M	JK30A01-M	JK48A01-RMHL	JK48B01-RMHL	JK30C01-ML
JK30B01-RM	JK30A01-RM	JK48A02-H	JK48B02-H	JK30C01-RML
JK30B01-L	JK30A01-L	JK48A02-RH	JK48B02-RH	JK30C02-R
JK30B01-RL	JK30A01-RL	JK48A02-MH	JK48B02-MH	JK30C02-M
JK30B01-ML	JK30A01-ML	JK48A02-RMH	JK48B02-RMH	JK30C02-RM
JK30B01-RML	JK30A01-RML	JK48A02-HL	JK48B02-HL	JK30C02-L
JK30B02-R	JK30A02-R	JK48A02-RHL	JK48B02-RHL	JK30C02-RL
JK30B02-M	JK30A02-M	JK48A02-MHL	JK48B02-MHL	JK30C02-ML
JK30B02-RM	JK30A02-RM	JK48A02-RMHL	JK48B02-RMHL	JK30C02-RML
JK30B02-L	JK30A02-L	JK60A01-H	JK60B01-H	JK38C01
JK30B02-RL	JK30A02-RL	JK60A01-RH	JK60B01-RH	JK38C01-R
JK30B02-ML	JK30A02-ML	JK60A01-MH	JK60B01-MH	JK38C01-M
JK30B02-RML	JK30A02-RML	JK60A01-RMH	JK60B01-RMH	JK38C01-RM
JK38B01	JK38A01	JK60A01-HL	JK60B01-HL	JK38C01-L
JK38B01-R	JK38A01-R	JK60A01-RHL	JK60B01-RHL	JK38C01-RL
JK38B01-M	JK38A01-M	JK60A01-MHL	JK60B01-MHL	JK38C01-ML
JK38B01-RM	JK38A01-RM	JK60A01-RMHL	JK60B01-RMHL	JK38C01-RML
JK38B01-L	JK38A01-L	JK60A02-H	JK60B02-H	JK38C02-R
JK38B01-RL	JK38A01-RL	JK60A02-RH	JK60B02-RH	JK38C02-M
JK38B01-ML	JK38A01-ML	JK60A02-MH	JK60B02-MH	JK38C02-RM
JK38B01-RML	JK38A01-RML	JK60A02-RMH	JK60B02-RMH	JK38C02-L
JK38B02-R	JK38A02-R	JK60A02-HL	JK60B02-HL	JK38C02-RL
JK38B02-M	JK38A02-M	JK60A02-RHL	JK60B02-RHL	JK38C02-ML
JK38B02-RM	JK38A02-RM	JK60A02-MHL	JK60B02-MHL	JK38C02-RML
JK38B02-L	JK38A02-L	JK60A02-RMHL	JK60B02-RMHL	JK48C01
JK38B02-RL	JK38A02-RL	JK85A01-H	JK85B01-H	JK48C01-R
JK38B02-ML	JK38A02-ML	JK85A01-RH	JK85B01-RH	JK48C01-M
JK38B02-RML	JK38A02-RML	JK85A01-MH	JK85B01-MH	JK48C01-RM
JK48B01	JK48A01	JK85A01-RMH	JK85B01-RMH	JK48C01-L
JK48B01-R	JK48A01-R	JK85A01-HL	JK85B01-HL	JK48C01-RL
JK48B01-M	JK48A01-M	JK85A01-RHL	JK85B01-RHL	JK48C01-ML



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JK48B01-RM	JK48A01-RM	JK85A01-MHL	JK85B01-MHL	JK48C01-RML
JK48B01-L	JK48A01-L	JK85A01-RMHL	JK85B01-RMHL	JK48C02-R
JK48B01-RL	JK48A01-RL	JK85A02-H	JK85B02-H	JK48C02-M
JK48B01-ML	JK48A01-ML	JK85A02-RH	JK85B02-RH	JK48C02-RM
JK48B01-RML	JK48A01-RML	JK85A02-MH	JK85B02-MH	JK48C02-L
JK48B02-R	JK48A02-R	JK85A02-RMH	JK85B02-RMH	JK48C02-RL
JK48B02-M	JK48A02-M	JK85A02-HL	JK85B02-HL	JK48C02-ML
JK48B02-RM	JK48A02-RM	JK85A02-RHL	JK85B02-RHL	JK48C02-RML
JK48B02-L	JK48A02-L	JK85A02-MHL	JK85B02-MHL	JK60C01
JK48B02-RL	JK48A02-RL	JK85A02-RMHL	JK85B02-RMHL	JK60C01-R
JK48B02-ML	JK48A2-ML	JK60B02-L	JK60A02-L	JK60C01-M
JK48B02-RML	JK48A02-RML	JK60B02-RL	JK60A02-RL	JK60C01-RM
JK60B01	JK60A01	JK60B02-ML	JK60A02-ML	JK60C01-L
JK60B01-R	JK60A01-R	JK60B02-RML	JK60A02-RML	JK60C01-RL
JK60B01-M	JK60A01-M	JK85B01	JK85A01	JK60C01-ML
JK60B01-RM	JK60A01-RM	JK85B01-R	JK85A01-R	JK60C01-RML
JK60B01-L	JK60A01-L	JK85B01-M	JK85A01-M	JK60C02-R
JK60B01-RL	JK60A01-RL	JK85B01-RM	JK85A01-RM	JK60C02-M
JK60B01-ML	JK60A01-ML	JK85B01-L	JK85A01-L	JK60C02-RM
JK60B01-RML	JK60A01-RML	JK85B01-RL	JK85A01-RL	JK60C02-L
JK60B02-R	JK60A02-R	JK85B01-ML	JK85A01-ML	JK60C02-RL
JK60B02-M	JK60A02-M	JK85B01-RML	JK85A01-RML	JK60C02-ML
JK60B02-RM	JK60A02-RM	JK85B01	JK85A02	JK60C02-RML
JK85B02-R	JK85A02-R	JK120B02-M	JK120A02-M	JK120B03-L
JK85B02-M	JK85A02-M	JK120B02-RM	JK120A02-RM	JK120B03-RL
JK85B02-RM	JK85A02-RM	JK120B02-L	JK120A02-L	JK120B03-ML
JK85B02-L	JK85A02-L	JK120B02-RL	JK120A02-RL	JK120B03-RML
JK85B02-RL	JK85A02-RL	JK120B02-ML	JK120A02-ML	JK120A03-L
JK85B02-ML	JK85A02-ML	JK120B02-RML	JK120A02-RML	JK120A03-RL
JK85B02-RML	JK85A02-RML	JK120B03-R	JK120A03-R	JK120A03-ML
JK120B02	JK120A02	JK120B03-M	JK120A03-M	JK120A03-RML
JK120B02-R	JK120A02-R	JK120B03-RM	JK120A03-RM	



Sample photo



Ref. photo



End of report

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