

Konformitätserklärung**für Gegenstände/Materialien welche Kontakt mit Lebensmittel haben
(Lebensmittelbedarfsgegenstände)**

Der Unterzeichner erklärt hiermit die Konformität des nachstehend beschriebenen Gerätes bzw. der Maschine entsprechend genannten Richtlinien und Standards:

EU Verordnung 1935/2004: Lebensmittelkontaktmaterialien,
§ 30 LFGB

(Lebensmittel- und Futtermittelgesetzbuch): Verbote zum Schutz der Gesundheit,
§ 31 LFGB

(Lebensmittel- und Futtermittelgesetzbuch): Übergang von Stoffen auf Lebensmittel,

EU Verordnung 10/2011: speziell Kunststoff als Lebensmittelkontaktmaterial;

Getestet durch:

Intertek

Report-Nummer: 170327019GZU-001 vom 19.05.2017 (Testbericht: 13 Seiten)

(ersetzt SZHH00803630S1 vom 02.09.2013, ersetzt SZHH00803630 vom 01.08.2013)

Geräte-/Maschinenbezeichnung:

Reiskocher für ca. 5,4 Liter Reis

Modellbezeichnung:

JULIUS

Bestell-Nummer:

213-3900

Name des Importeurs:

Saro Gastro-Products GmbH

Adresse:

Sandbahn 6

46446 Emmerich am Rhein

Germany/Deutschland

Ort:

Emmerich am Rhein

Datum:

26.06.2017

Unterschrift:



i.A. Ines Heuer
Sachbearbeiter

Stempel

saro[®]
Gastro-Products GmbH
Sandbahn 6 · D-46446 Emmerich
Tel: (0 28 22) 92 58-0 · Fax 1 81 92

Applicant:

Abgedeckter Bereich.

Sample Description:

The following submitted sample(s) said to be:

Item Name : **Rice cooker**

Reference No.

Abgedeckter Bereich.

Date of Sample Received : Mar 30, 2017; May 05, 2017

Testing Period : Mar 30, 2017 to Apr 20, 2017; May 05, 2017 to May 12, 2017

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 comply with the food contacting requirements for §30 and §31 LFGB and Regulation (EC) 1935/2004.

To be continued

Authorized by:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Silva Zhou



Silva Zhou
Supervisor

Conclusion:

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

Tested parameters	Result
1) Global migration on plastic	Pass
2) Specific migration of heavy metal on plastic	Pass
3) PAH content	Pass
4) Specific migration of PAH	Pass
5) Total Lead and Cadmium	Pass
6) Volatile organic matter	Pass
7) Peroxides residues	Pass
8) Determination of heavy metal release on metal	Pass
9) Specific migration of primary aromatic amines	Pass
10) Specific migration of formaldehyde	Pass
11) Specific migration of phenol	Pass
12) Specific migration of 1,4-Dihydroxybenzene	Pass
13) Organotin compounds content	Pass
14) Specific migration of PFOS& PFOA	Pass
15) Extractable substances of silicone rubber	Pass
16) Sensory test	Pass

Remark: As claimed by client, models HX-54U3L1; HJF-8154; 240403; HX-54V3L1; HX-54G3L1; CRC1950; RC1950 are the same, only the label in the product are different.

Authorized by:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:



Silva Zhou
Supervisor

Tests Conducted

Tested components:

- (1) Transparent PP plastic(measuring cup)
- (2) White PP plastic(scoop)
- (3) Black PP plastic(steam valve)
- (4) Semi-transparent silicone rubber(cushion)
- (5) Grey silicone rubber(sealing ring)
- (6) Grey non-stick coating on metal(pot)
- (7) Silver color metal(screw)
- (8) Silver color metal(lid)
- (9) Rice cooker

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:

Food Simulant
Distilled water

Test Temperature
100°C and then 70°C

Test Duration
6 hours and then 24 hours

II. Result:

<u>Test Item</u>	<u>Result</u>	<u>Limit</u>
	(9)	
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 Overall Migration Test

As per Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

Aqueous food simulant:			
Test no.	Time and temperature		
OM5	2 hours at 100 °C or reflux		
Tested component	Food simulant	Time(hour)	Temperature(°C)
(1)-(2)	20% (v/v) Ethanol	2	100

II. Test Results :

Food Simulant	Result(mg/dm ²)		Detection Limit (mg/dm ²)	Limit (mg/dm ²)
	(1)	(2)		
20% (v/v) Ethanol	ND	1	1	10

ND = Not detected

Remark :

Ratio of food contact surface area to volume used to establish the compliance of material or article = 1dm² : 100mL.

3 Overall Migration Test

As per Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

Aqueous food simulant:			
Test no.	Time and temperature		
OM6	4 hours at 100 °C or reflux		
Tested component	Food-simulant	Time(hour)	Temperature(°C)
(3)	20% (v/v) Ethanol	4	100

II. Test Results :

Food Simulant	Result(mg/dm ²)	Detection Limit (mg/dm ²)	Limit (mg/dm ²)
	(3)		
20% (v/v) Ethanol	1	1	10

ND = Not detected

Remark :

Ratio of food contact surface area to volume used to establish the compliance of material or article = 1dm² : 100mL.

4 Specific Migration of Heavy Metal

As per Commission Regulation (EU) No. 10/2011 and its amendments

I. Test condition:

Temperature : 100°C Time : 2 hours

II. Test result :

Food simulant	Element	Result (mg/kg)	Detection limit (mg/kg)	Limit (mg/kg)
		(1)~(2)		
3% (w/v) Acetic acid in aqueous solution	Barium	ND	0.1	1 (max.)
	Cobalt	ND	0.03	0.05 (max.)
	Copper	ND	1	5 (max.)
	Iron	ND	5	48 (max.)
	Lithium	ND	0.1	0.6 (max.)
	Manganese	ND	0.1	0.6 (max.)
	Zinc	ND	1	5 (max.)
	Aluminum	ND	0.1	1(max)

ND = Not detected

5 Specific Migration of Heavy Metal

As per Commission Regulation (EU) No. 10/2011 and its amendments

I. Test condition:

100°C 6 hours and then 70°C 24 hours

II. Test result :

Food simulant	Element	Result (mg/kg)	Detection limit (mg/kg)	Limit (mg/kg)
		(3)		
3% (w/v) Acetic acid in aqueous solution	Barium	ND	0.1	1 (max.)
	Cobalt	ND	0.03	0.05 (max.)
	Copper	ND	1	5 (max.)
	Iron	ND	5	48 (max.)
	Lithium	ND	0.1	0.6 (max.)
	Manganese	ND	0.1	0.6 (max.)
	Zinc	ND	1	5 (max.)
	Aluminum	ND	0.1	1(max)

6 Total Lead and Cadmium Content

By microwave digestion and followed by Inductively Coupled Plasma (ICP) Spectrophotometric analysis.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)
	(1)~(5)		
Lead (Pb)	ND	10	100
Cadmium (Cd)	ND	10	100

ND = Not detected

7 Polycyclic Aromatic Hydrocarbons (PAHs) Content

By solvent extraction and determined by Gas Chromatographic - Mass Spectrometric Detector (GC-MSD).

Test Results:

Compound	Result (mg/kg)					Detection Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	
Naphthalene	ND	ND	ND	ND	ND	0.2
Acenaphthylene	ND	ND	ND	ND	ND	0.2
Acenaphthene	ND	ND	ND	ND	ND	0.2
Fluorene	ND	ND	ND	ND	ND	0.2
Phenanthrene	ND	ND	ND	ND	ND	0.2
Anthracene	ND	ND	ND	ND	ND	0.2
Fluoranthene	ND	ND	ND	ND	ND	0.2
Pyrene	ND	ND	ND	ND	ND	0.2
Chrysene	ND	ND	ND	ND	ND	0.2
Benzo[a]anthracene	ND	ND	ND	ND	ND	0.2
Benzo[b]fluoranthene	ND	ND	ND	ND	ND	0.2
Benzo[j]fluoranthene	ND	ND	ND	ND	ND	0.2
Benzo[k]fluoranthene	ND	ND	ND	ND	ND	0.2
Benzo[a]pyrene	ND	ND	ND	ND	ND	0.2
Benzo[e]pyrene	ND	ND	ND	ND	ND	0.2
Dibenzo[a,h]anthracene	ND	ND	ND	ND	ND	0.2
Indeno[1,2,3-c,d]pyrene	ND	ND	ND	ND	ND	0.2
Benzo[g,h,i]perylene	ND	ND	ND	ND	ND	0.2
Sum of PAHs	ND	ND	ND	ND	ND	--

ND=No detected

8 Specific Migration of Primary Aromatic Amines

As per Commission Regulation (EU) No. 10/2011 and JRC Technical Guidelines EUR 24815 EN 2011.

I. Test condition :

Tested component	Food simulant	Time(hour)	Temperature(°C)
(2)	3% (w/v) Acetic acid	2	100

II. Test result :

Food simulant	Result(mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	(2)		
3% (w/v) Acetic acid	ND	0.01	ND

ND = Not detected

Remark: Ratio of food contact surface area to volume used for the testing = 1dm^2 : 100mL.

9 Specific Migration of Primary Aromatic Amines

As per Commission Regulation (EU) No. 10/2011 and JRC Technical Guidelines EUR 24815 EN 2011.

I. Test condition :

Tested component	Food simulant	Time(hour)	Temperature(°C)
(3)	3% (w/v) Acetic acid	6 hours and then 24 hours	100°C and then 70°C

II. Test result :

Food simulant	Result(mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	(3)		
3% (w/v) Acetic acid	ND	0.01	ND

Remark: Ratio of food contact surface area to volume used for the testing = 1dm^2 : 167mL.

10 Volatile Organic Matter of Silicone Rubber

As per BfR recommendations on food contact materials (formerly "Plastics Recommendations") part BII XV.

I. Test condition:

Temperature: 200°C Time : 4 hours

II. Result :

Tested component of submitted sample	Result (%)	Detection Limit (%)	Limit (%)
(4)	0.40	0.1	0.5
(5)	0.34	0.1	0.5

11 Extractable substances of Silicone Rubber

As per LFGB plastic recommendation XV.

<u>Food simulant</u>	<u>Result (%)</u>		<u>Detection Limit (%)</u>	<u>Limit (%)</u>
	(4)	(5)		
Distilled water	0.18	0.22	0.10	0.5
3% (w/v) acetic acid	0.24	0.24	0.10	0.5
10% (v/v) ethanol	ND	ND	0.10	0.5

ND=No Detected

12 Peroxide Residues of Silicone Rubber

As per LFGB Plastic Recommendation BII XV.

<u>Tested Component</u>	<u>Result</u>
(4)	No positive reaction
(5)	No positive reaction

Limit : No positive reaction to peroxides

13 Organotin Compounds Content

With reference to ISO 17353:2004, by Ethanol Extraction, derivatization and followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

<u>Compound</u>	<u>Result (mg/kg)</u>	<u>Detection limit (mg/kg)</u>
	(4)~(5)	
Dimethyl Tin (DMT)	ND	0.025
Monobutyl Tin (MBT)	ND	0.025
Monooctyl Tin (MOT)	ND	0.025
Dibutyl Tin (DBT)	ND	0.025
Diocetyl Tin (DOT)	ND	0.025
Tributyl Tin (TBT)	ND	0.025
Tetrabutyl Tin (TeBT)	ND	0.025
Tri-octyl Tin (TriOT)	ND	0.025
Monomethyl Tin (MeT)	ND	0.025
Triphenyltin (TPT)	ND	0.025
Tricyclohexyltin (TCHT)	ND	0.025

ND = Not detected

14 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: 4 hours

II. Test Result:

Food simulant: Artificial tap water (prepare according DIN 10531 Clause 4.2.2.2)

Tested component (6)~(8) :							
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	-	-

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.

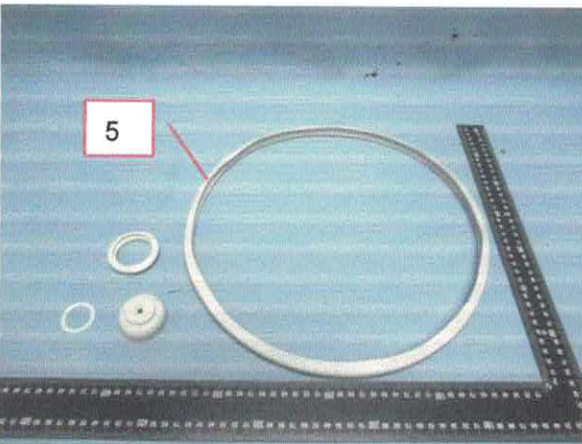
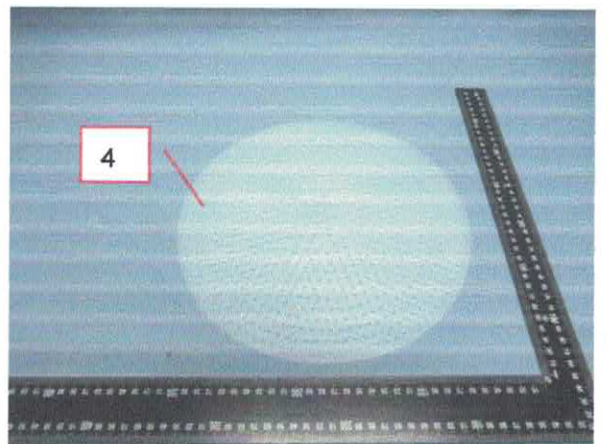
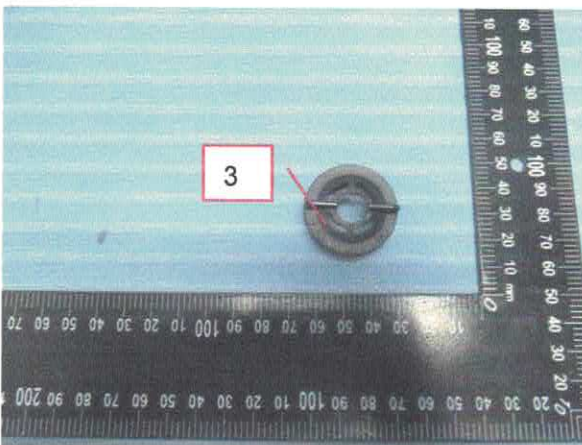
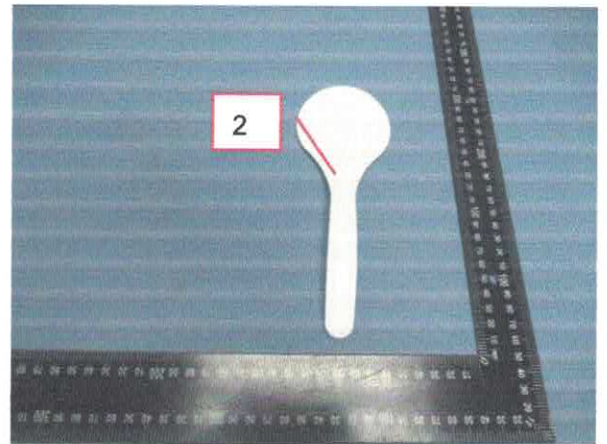
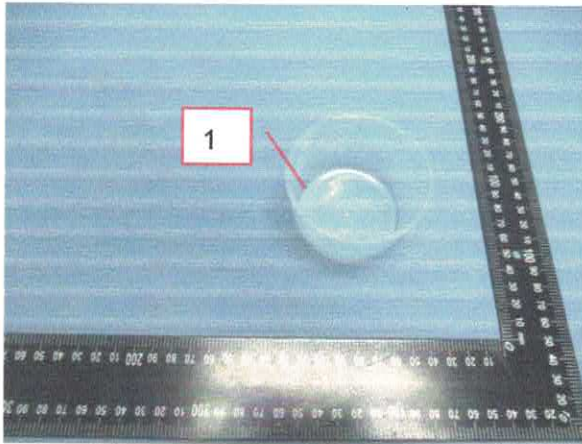
15 Specific Migration for Non-Stick Coating

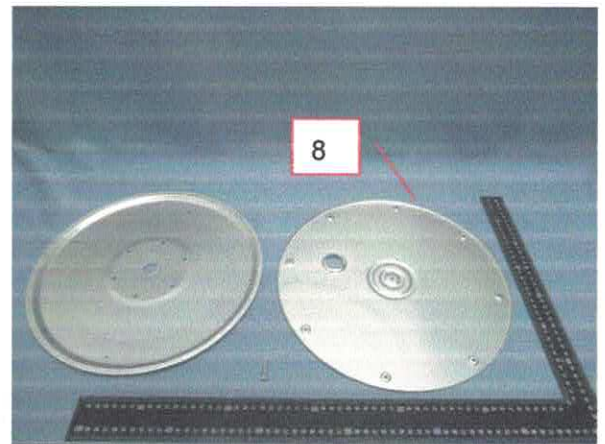
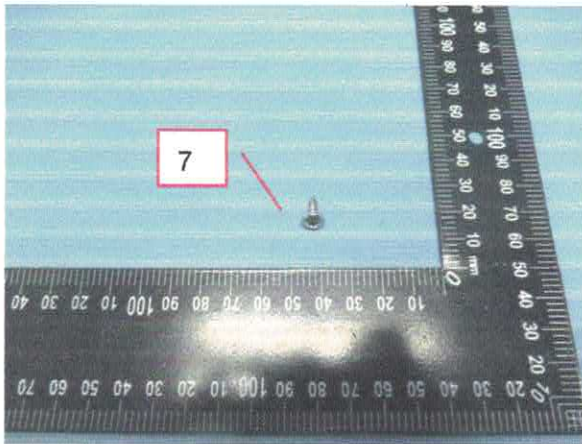
By Spectrometric, Liquid Chromatographic - (LC) and Liquid Chromatographic - tandem Mass Spectrometric (LC-MS/MS) analysis.

	Test Item	Result	Detection Limit	Limit
		(6)		
(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

Sample Photo





End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.