Test Report Number: 160701149SHA-001(R1)

Applicant: Date: Jun 06, 2017

Sample Description:

One(1) piece of submitted sample said to be

Item Name	: Frying pan(Tested)/grill/crepes pan
Tested Model	: EPP-30
Referenced Model	: EGP-001,EGP-005,EGP-011, EGP-012 ,EGP-013, EGP-014,EGP-015, EGP-026-A, EGP-026-B,EGP-011-1, EGP-012-1, EGP-013-1, EGP-014-1, EGP-011-2,EGP-017,102210,102325,EFP-001-A,EFP-001-B,EFP-002-A,EFP-005, EFP-008,PP-019, EGP-020, PP-007C, PP-007D EFP-001,EFP-002,EPP-28,EPP-30,EPP-34,EPP-34-A,EPP-38,EPP-38-A, EPP-40, EPP-004-34,EPP-004-38,PP-010,PP-010-1,EPP-28-A, EPP-30-A, EPP-30-B,PP-007A,PP-007B,PP-018-1.5,PP-017-1.5,PP-017-2,PP-016-2, PP-018-2, EGP-001-1
Material	: Aluminium alloy with black non-stick coating

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Tests Conducted:

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

Remark:

This is to supersede report No. 160701149SHA-001 dated in Aug 08, 2016

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To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Jonny Jing
Manager

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Test Report Number： 160701149SHA-001(R1)

Tests conclusion:

According to the test results of below test parameters, the food contacting components of submitted sample complied with the suggested food contacting testing parameters for German §30 and §31 LFGB and also complied with general requirement of regulation EC 1935/2004 article 3,paragraph 1.

Tests conducted:

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

1) Sensory test on finished product
2) Global migration on plastic
3) Specific migration for non-stick coating
4) Specific Migration of Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)
5) Determination of heavy metal release on metal part
6) Aluminium Alloy composition

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To be continued

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Test Sequence

1) Sensory Evaluation

With reference to §64 LFGB I00.90-6.

Test procedure：
Sample was thoroughly rinsed with distilled water and then totally immersed by distilled water. Filled sample was kept at ambient temperature 100 ℃ and relative humidity (40-80%) for 2hours Off-odor and off-taste was evaluated with 5 panelists using control sample of distilled water.

	Result	Limit
Appearance	Clear, Colourless	Clear, Colourless
Odor	0	2.5
Taste	0	2.5

Assessment:
Intensity scale:
0 = No perceptible odour / taste
1 = Odour / taste just perceptible (but still difficult to define)
2 = Slight odour / taste
3 = Distinct odour / taste
4 = Strong odour / taste

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To be continued

Test Sequence

2) Overall Migration Test For Coatings Food Contact Materials/Articles

As per Resolution ResAP(2004)1 on coatings intended to come into contact with foodstuffs, selection of test condition & food simulants by 82/711/EEC, 85/572/EEC and their amendments.

I. Test Condition:

Aqueous food simulant:

	Time and Temperature 2 hours at 100 ℃		
II. Test Results			
Tested Component (1)	Result in mg/dm^2 3%(w/v) acetic acid	10% (v/v) ethanol	Fatty food simulant
	1.6	<1.0	<1.0
Limit in	10	10	10

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To be continued

Test Sequence

3) Chemical Tests For Non-Stick Coating

By Spectrometric, Liquid Chromatographic and Liquid Chromatographic – Mass Spectrometric analysis.

I. Test Results

Test Item	Result	Limit
Extractable Formaldehyde content (mg/kg)	<1	15 (max.)
Specific migration of Phenolic substances (mg/dm^2)	<0.05	0.05 (max.)
Specific migration of 1,4-dihydroxybenzene (mg/kg)	<0.2	0.6 (max.)
Specific migration of Primary Aromatic Amines (PAA) (mg/kg)		
4-Aminodiphenyl	ND (<0.002)	ND
2-Methoxyaniline	ND (<0.002)	ND
Benzidine	ND (<0.002)	ND
p-Chloraniline	ND (<0.002)	ND
4-Chloro-o-toluidine	ND (<0.002)	ND
4,4'-Oxydianiline	ND (<0.002)	ND
4,4-Diaminodiphenylmethan	ND (<0.002)	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethan	ND (<0.002)	ND
p-Cresidine	ND (<0.002)	ND
p-Phenylendiamine	ND (<0.002)	ND
2,4-Diaminoanisol	ND (<0.002)	ND
o-Toluidine	ND (<0.002)	ND
2,4-Toluene-diamine	ND (<0.002)	ND
3,3'-Dimethylbenzidine	ND (<0.002)	ND
2,4,5-Trimethylaniline	ND (<0.002)	ND
2-Naphthylamine	ND (<0.002)	ND
4,4'-Methylenbis-(2-chloraniline)	ND (<0.002)	ND
3,3'-Dimethoxybenzidine	ND (<0.002)	ND
3,3'-Dichlobenzidine	ND (<0.002)	ND
4,4'-Thiodianiline	ND (<0.002)	ND
4-Aminoazobenzene	ND (<0.002)	ND
Aniline	ND (<0.002)	---
2,4-xylidine	ND (<0.002)	---
2,6-xylidine	ND (<0.002)	---
m-phenylendiamine	ND (<0.002)	---
2,6-toluene-diamine	ND (<0.002)	---
1,5-diaminonaphthalene	ND (<0.002)	---
3-methoxyaniline	ND (<0.002)	---
Sum of above PAA content	ND (< 0.01)	ND

Remark: ND= Not detected

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To be continued

Test Sequence

4) Migration of Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)

By Liquid Chromatographic – Mass Spectrometric (LC-MS) Analysis.

I. Test Condition:
Aqueous food simulant:

Time and Temperature
2 hours at 100 ℃

II. Test Results

Tested Component	Result in μg/dm^2	
	3% (w/v) acetic acid	95% (v/v) ethanol
PFOS	<0.005	<0.005
PFOA	<0.005	<0.005
Total	<0.005	<0.005
Limit in	0.005	0.005

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To be continued

Test Sequence

5) 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:
Aqueous food simulant:

Time and Temperature
2 hours at 100 ℃

II. Test Results Food Simulant: Artificial tap water (prepare according DIN 10531 Clause 4.2.2.2)

Tested Component	Result 1st test (mg/kg)	Result 2nd test (mg/kg)	Result1st test +Result 2ndtest (mg/kg)	7*Limit (mg/kg)	Result 3rd test (mg/kg)	Limit (mg/kg)
Silver (Ag)	<0.05	<0.05	<0.05	0.56	<0.05	0.08
Aluminium (Al)	<1	<1	<1	35	<1	5
Chromium (Cr)	<0.02	<0.02	<0.02	1.75	<0.02	0.250
Cobalt (Co)	<0.01	<0.01	<0.01	0.14	<0.01	0.02
Copper (Cu)	<0.5	<0.5	<0.5	28	<0.5	4
Iron (Fe)	<1	<1	<1	280	<1	40
Manganese (Mn)	<0.1	<0.1	<0.1	12.6	<0.1	1.8
Molybdenum(Mo)	<0.02	<0.02	<0.02	0.84	<0.02	0.12
Nickel (Ni)	<0.1	<0.1	<0.1	0.98	<0.1	0.14
Tin (Sn)	<10	<10	<10	700	<10	100
Vanadium (V)	<0.005	<0.005	<0.005	0.07	<0.005	0.01
Zinc (Zn)	<1	<1	<1	35	<1	5
Antimony (Sb)	<0.01	<0.01	<0.01	0.28	<0.01	0.04
Arsenic (As)	<0.001	<0.001	<0.001	0.014	<0.001	0.002
Barium (Ba)	<0.1	<0.1	<0.1	8.4	<0.1	1.2
Beryllium (Be)	<0.01	<0.01	<0.01	0.07	<0.01	0.01
Cadmium (Cd)	<0.001	<0.001	<0.001	0.035	<0.001	0.005
Lead (Pb)	<0.005	<0.005	<0.005	0.070	<0.005	0.010
Lithium (Li)	<0.010	<0.010	<0.010	0.336	<0.010	0.048
Mercury (Hg)	<0.003	<0.003	<0.003	0.021	<0.003	0.003
Thallium (Tl)	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0001
Magnesium (Mg)	<0.1	<0.1	<0.1	-	<0.1	-
Titanium (Ti)	<0.1	<0.1	<0.1	-	<0.1	-

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To be continued

III. Test Results Food Simulant: Citric acid(5g/L)

Tested Component	Result 1st test (mg/kg)	Result 2nd test (mg/kg)	Result1st test +Result 2ndtest (mg/kg)	7*Limit (mg/kg)	Result 3rd test (mg/kg)	Limit (mg/kg)
Silver (Ag)	<0.05	<0.05	<0.05	0.56	<0.05	0.08
Aluminium (Al)	<1	<1	<1	35	<1	5
Chromium (Cr)	<0.02	<0.02	<0.02	1.75	<0.02	0.250
Cobalt (Co)	<0.01	<0.01	<0.01	0.14	<0.01	0.02
Copper (Cu)	<0.5	<0.5	<0.5	28	<0.5	4
Iron (Fe)	<1	<1	<1	280	<1	40
Manganese (Mn)	<0.1	<0.1	<0.1	12.6	<0.1	1.8
Molybdenum(Mo)	<0.02	<0.02	<0.02	0.84	<0.02	0.12
Nickel (Ni)	<0.1	<0.1	<0.1	0.98	<0.1	0.14
Tin (Sn)	<10	<10	<10	700	<10	100
Vanadium (V)	<0.005	<0.005	<0.005	0.07	<0.005	0.01
Zinc (Zn)	<1	<1	<1	35	<1	5
Antimony (Sb)	<0.01	<0.01	<0.01	0.28	<0.01	0.04
Arsenic (As)	<0.001	<0.001	<0.001	0.014	<0.001	0.002
Barium (Ba)	<0.1	<0.1	<0.1	8.4	<0.1	1.2
Beryllium (Be)	<0.01	<0.01	<0.01	0.07	<0.01	0.01
Cadmium (Cd)	<0.001	<0.001	<0.001	0.035	<0.001	0.005
Lead (Pb)	<0.005	<0.005	<0.005	0.070	<0.005	0.010
Lithium (Li)	<0.010	<0.010	<0.010	0.336	<0.010	0.048
Mercury (Hg)	<0.003	<0.003	<0.003	0.021	<0.003	0.003
Thallium (Tl)	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0001
Magnesium (Mg)	<0.1	<0.1	<0.1	-	<0.1	-
Titanium (Ti)	<0.1	<0.1	<0.1	-	<0.1	-

Remark: The submitted sample/component 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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To be continued

Test Report Number: 160701149SHA-001(R1)

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Date Sample Received: Jul 14, 2016
Testing Period: Jul 14, 2016 to Jul 25, 2016

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End of This Report

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