Test Report Number: SZHH01231628

Applicant: KOOPMAN INTERNATIONAL B.V
DISTELWEG 88 AMSTERDAM, THE NETHERLANDS

Date: Mar 13, 2018

Attn: QUALITY CONTROL

Sample Description:

Two (2) styles of submitted sample said to be :

Item Name	:	**Cake Forms.**
Item No.	:	**170450270 170450280 170450290 170450300 170450310 170450320.**
Material	:	2x Silicone (red, gold).
Date Sample Received	:	Mar 05, 2018.



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Tests conducted:

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

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To be continued

Authorized by:
For Intertek Testing Services Shenzhen Ltd.

Ben N.L. Lin
General Manager

Intertek Testing Services Shenzhen Ltd.
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Conclusion:

Tested Samples	Client's requirement on	Result
Tested components of submitted samples	----Sensory test	Pass
	----Overall migration	Pass
	----PAH content	Pass
	----Peroxides residues	Pass
	----Organotin content	Pass
	----Extractable components	Pass

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Tests Conducted

1 Sensory Evaluation

With reference to DIN 10955:2004.

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

I. Test condition:

Water 100°C 4 hours

II. Result:

Test Item	Result (1),(2)	Limit
Intensity of odour	0	2.5
Intensity of off- flavour	0	2.5

Intensity Scale: 0 = No discernible deviation
1 = Barely discernible deviation
2 = Weak deviation
3 = Clear deviation
4 = Strong deviation

Tested component: See component list in the last section of this report.

2 Extractable substances of silicone rubber

As per LFGB plastic recommendation XV.

Food simulant	Result (%) (1),(2)	Limit (%)
Distlilled water	<0.10	0.5
3% (w/v) acetic acid	<0.10	0.5
10% (v/v) ethanol	<0.10	0.5

Tested Components: see component list in the last section of this report.

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3 Peroxide Residues of Silicone Rubber

As per LFGB Plastic Recommendation BII XV.

Tested Component	Result
(1)	No positive reaction
(2)	No positive reaction

Limit : No positive reaction to peroxides

Tested Component: see component list in the last section of this report.

4 Organotin Compounds Content

With reference to ISO 17353:2004, ethanol extract 1hour, then derivatization and followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

Compound	Result (ppm) (1),(2)	Limit (ppm)
Dimethyl Tin (DMT)	ND	ND
Monobutyl Tin (MBT)	ND	ND
Monooctyl Tin (MOT)	ND	ND
Dibutyl Tin (DBT)	ND	ND
Dioctyl Tin (DOT)	ND	1.5×10^{4}
Tributyl Tin (TBT)	ND	ND
Tetrabutyl Tin (TeBT)	ND	ND
Tri-octyl Tin (TriOT)	ND	ND
Monomethyl Tin (MeT)	ND	ND
Triphenyltin (TPT)	ND	ND

ppm = parts per million = mg/kg
ND = Not detected
Detection limit = 0.025 ppm

Tested Components: See component list in the last section of this report

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5 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK (PAH), by solvent extraction and determined by Gas Chromatography - Mass Spectrometer (GC/MS).

(I) Test Result

Compound	Result (mg/kg)		Limit (mg/kg)		
	(1)	(2)	Category 1	Category 2	Category 3
Acenaphthylene	ND	ND	--	--	--
Acenaphthene	ND	ND	--	--	--
Fluorene	ND	ND	--	--	--
Phenanthrene	ND	ND	--	--	--
Anthracene	ND	ND	--	--	--
Fluoranthene	ND	ND	--	--	--
Pyrene	ND	ND	--	--	--
Sum (7 PAHs):	ND	ND	1	10	50
Naphthalene	ND	ND	1	2	10
Benzo(a)Anthracene	ND	ND	0.2	0.5	1
Chrysene	ND	ND	0.2	0.5	1
Indeno(1,2,3-cd)Pyrene	ND	ND	0.2	0.5	1
Benzo(b)Fluoranthene	ND	ND	0.2	0.5	1
Benzo(k)Fluoranthene	ND	ND	0.2	0.5	1
Benzo(a)Pyrene	ND	ND	0.2	0.5	1
Dibenzo(a,h)Anthracene	ND	ND	0.2	0.5	1
Benzo(g,h,i)Perylene	ND	ND	0.2	0.5	1
Benzo(e)Pyrene	ND	ND	0.2	0.5	1
Benzo(j)Fluoranthene	ND	ND	0.2	0.5	1
Sum (18 PAHs):	ND	ND	1	10	50
Classification of samples: Category	1	1			
Conclusion	P	P			

ND = Not detected
Detection Limit = 0.2 mg/kg
P = Pass

Tested Components: See component list in the last section of this report

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(II) Categories for Products

Parameter	Product
Category 1	Food contact materials & materials intended to be put in the mouth
Category 2	Materials with long-term skin contact (>30 sec).
Category 3	Materials with short-term skin contact (<30 sec).

6 Global Migration silicone elastomers

As per DGCCRF document related to organic materials on basis of synthetic material.

I. Test condition:

Tested component	Food simulant	Time(hour)	Temperature(^{o}C)
(1),(2)	95%(v/v) Ethanol	7	60
	Iso –octane	3	60

II. Test Results :

Food Simulant	Result(mg/dm²)		Reporting Limit (mg/dm²)	Limit (mg/dm²)
	(1)	(2)		
95%(v/v) Ethanol	6	5	1	10
Iso –octane	5	3	1	10

Remark :
Ratio of food contact surface area to volume used to establish the compliance of material or article = 1 dm^2 : 100 mL.

The result was analysed on the third migration for repeated use item.

Tested components : See component list in last section of this report.

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Component list:

(1) Red silicone rubber (mould).
(2) Gold silicone rubber (mould).

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End of report

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