

Test Report

No. CANEC1302238701

Date: 07 Mar 2013

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ZHEJIANG FUSHITE SILICONE PRODUCTS CO., LTD.

NO 19.JIANGDIAN ROAD,ECONOMICAL DEVELOPMENT ZONE,JIANGSHAN,ZHEJIANG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SILICON

SGS Job No. : CP13-006074 - SZ
Client Ref. Info. : 70
Date of Sample Received : 26 Feb 2013
Testing Period : 26 Feb 2013 - 07 Mar 2013
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation -Extractable components	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Lead and Cadmium	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Volatile organic matter (VOM)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Polynuclear Aromatic Hydrocarbons (PAHs)	PASS

Conclusion : When tested as specified, the tested parameters comply with the requirements stating under German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) with amendments, Section 30 & 31, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

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Signed for and on behalf of
SGS-CSTC Ltd.



Alpher Qiu
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-022387.001	Translucent silicone rubber

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation -Extractable components

Test Requested : As specified by client, to determine Extractable components from Silicone rubber used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation.

Test Method : With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46 (2003) 362.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
Distilled water	4.0hr(s)	100°C	0.5% (w/w)	<0.1% (w/w)	PASS
3% Acetic Acid (W/V) Aqueous Solution	4.0hr(s)	100°C	0.5% (w/w)	<0.1% (w/w)	PASS
10% Ethanol	4.0hr(s)	100°C	0.5% (w/w)	<0.1% (w/w)	PASS

Notes :

%w/w = percentage of weight by weight

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments-Sensorial examination odour and taste test

Test Requested : As specified by client, to determine Sensorial examination odour and taste from the submitted sample used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments.

Test Method : With reference to DIN10955:2004.

Test condition: 100°C 4hr(s);

Test media: Distilled water;

No. of panelist: 6

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<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
Comment		PASS

Notes :

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Lead and Cadmium

Test Requested : As specified by client, to determine Lead and Cadmium from submitted sample(s) used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation.

Test Method : With reference to US EPA Method 3052:1996(GZTC CHEM-TOP-004-01), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	Absent	mg/kg	2	ND
Comment				PASS
Lead (Pb)	Absent	mg/kg	2	ND
Comment				PASS

Notes :

- 1. mg/kg = milligram per kilogram of sample
- 2. MDL=Method Detection Limit
- 3. ND= Not Detected(less than MDL)
- 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31. Lead, Cadmium and their compounds are not listed for the production of plastic materials in contact with food.

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Volatile organic matter (VOM)

Test Requested : As specified by client, to determine Volatile organic matter (VOM) content from Silicone rubber used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation.

Test Method : With reference to 60. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 45 (2002) 462 and LFGB § 64 BVL B 80.30.1(EG).
Test condition: 200°C, 4hr(s)

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Volatile organic matter (VOM)	0.5	% (w/w)	0.1	0.1
Comment				PASS

Notes :

1. %w/w = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Polynuclear Aromatic Hydrocarbons (PAHs)

Test Requested : As specified by client, to determine Polynuclear Aromatic Hydrocarbons (PAHs) from Silicone rubber used in contact with food for compliance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation.

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND

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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF) + Benzo(j)fluoranthene(BjF)	mg/kg	0.4	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.2	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND
Sum of 18 PAHs	mg/kg	-	ND

Conclusion

PASS

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ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

- * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- ** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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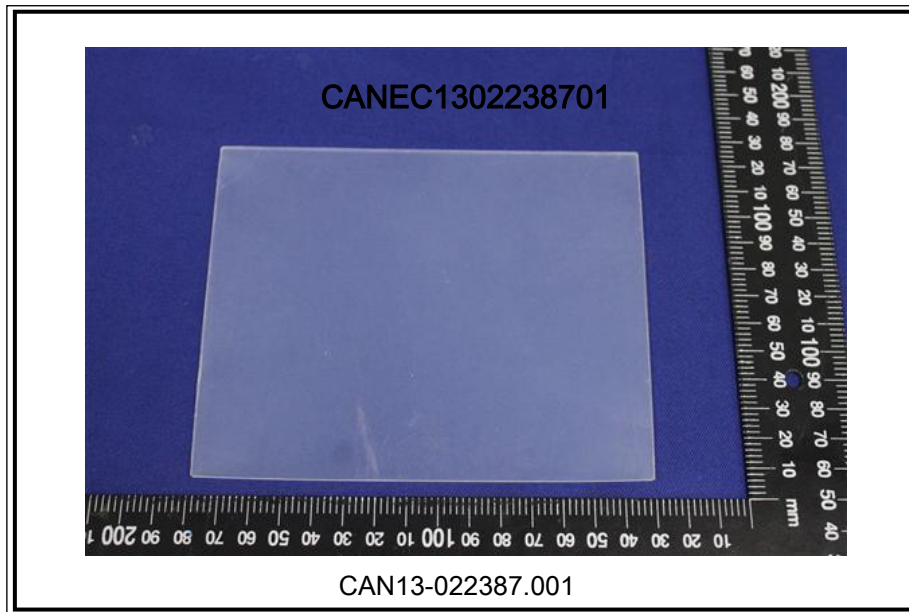
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Sample photo:



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