

Test Report

No. CANHG1201463601

Date: 01 Mar 2012

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

SGS Job No. : GZHG1202003275CW - GZ

Supplier :

Date of Sample Received : 21 Feb 2012

Testing Period : 21 Feb 2012 - 01 Mar 2012

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 with amendments and BfR recommendation –Extractable components	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments–Peroxide value	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with amendments, Section 31-Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, European Commission Regulation (EU) No 10/2011 and BfR recommendation–Lead and Cadmium	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 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 with amendments and BfR recommendation–Organotin content	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	CAN12-014636.001	Black silicone rubber brush (semi-product)

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 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 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	5.0hr	reflux temperature	0.5% (w/w)	<0.1% (w/w)	PASS
3% Acetic Acid (W/V) Aqueous Solution	5.0hr	reflux temperature	0.5% (w/w)	<0.1% (w/w)	PASS
10% Ethanol	5.0hr	reflux temperature	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 with amendments–Peroxide value

Test Requested : As specified by client, to determine Peroxide value 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 with amendments.

Test Method : With reference to European Pharmacopoeia, 1997, p.173.

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<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Peroxide Value	Absent	Absent
Comment		PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with amendments, Section 31-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 31 with amendments.

Test Method : With reference to DIN10955:2004.
 Odour test condition: 23°C 24 hours;
 Taste test condition: 100°C 0.5hour;
 Test media: Distilled water;
 No.of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Sensorial examination odour (Point scale)	2.5	2.0
Sensorial examination taste (Point scale)	2.5	1.0
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 with amendments, European Commission Regulation (EU) No 10/2011 and BfR recommendation-Lead and Cadmium

Test Requested : As specified by client, to determine Lead and Cadmium 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 with amendments, European Commission Regulation (EU) No 10/2011 and BfR recommendation.

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Test Method : Total Lead and Cadmium: SGS In-house method (GZTC CHEM-TOP-004-01) acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	Absent	mg/kg	2	ND
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 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.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 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 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: 100°C, 0.5 hour

Test Item(s)	Limit	Unit	MDL	001
Volatile organic matter (VOM)	0.5	% (w/w)	0.1	ND
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 with amendments and BfR recommendation-Organotin content

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Test Requested : As specified by client, to determine Organotin 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 with amendments and BfR recommendation.

Test Method : With reference to ISO 17353:2004, followed by analysis using GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Monobutyl tin (MBT)	Absent	mg/kg	0.02	ND
Dibutyl tin (DBT)	Absent	mg/kg	0.02	ND
Tributyl tin (TBT)	Absent	mg/kg	0.02	ND
Monooctyl tin (MOT)	Absent	mg/kg	0.02	ND
Tetrabutyl tin (TTBT)	Absent	mg/kg	0.02	ND
Diocetyl tin (DOT)	Absent	mg/kg	0.02	ND
Triphenyl tin (TPhT)	Absent	mg/kg	0.02	ND
Comment	PASS			

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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