



## Test Report

No.: GZ1106071894/CHEM

Date: JUN 13, 2011

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COOKLINE  
D-68766 HOCKENHEIM GERMANY

The following sample(s) was/were submitted and identified on behalf of the applicant as Silicone LID

SGS Job No. : GZ13170401EC  
Client Reference Information : Product material: Silicone  
Country of Destination : GERMANY  
Date of Sample Received : JUN 07, 2011  
Testing Period : JUN 07, 2011 TO JUN 13, 2011

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 and BfR recommendation.  
1) Sensorial examination odour and taste test.  
2) For material: Silicone Rubber – Peroxide value.  
3) For material: Silicone Rubber – Extractable components test.  
4) For material: Silicone Rubber – Organotin content (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Triphenyltin, Mono-octyltin, Di-octyltin).  
5) For material: Silicone Rubber – Volatile organic matter (VOM)

Test Method : 1) Robinson's test with reference to DIN10955:2004-06  
Test condition : Odor test: 23°C, 24 hours  
Taste test: Distilled water, 100°C, 2 hours  
No. of panelist : Six  
2) With reference to European Pharmacopoeia, 1997, p.173  
3) With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46 (2003) 362.  
4) With reference to ISO 17353:2004, followed by analysis using GC-MS.  
5) With reference to LFGB BfR Part B Part II Section XV, May 2003 and LFGB section 35 B80.30 1(EG).

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Jenny Jiang  
Approved Signatory

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198 Xietu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.cn.sgs.com  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

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**Test Results :**

1)

Test Item	Result	Maximum Permissible Limit
	No.2	
Sensorial examination odour (Point scale)	2	2.5
Sensorial examination taste (Point scale)	0	2.5

**Remark :**

Odour / Taste	Grade
No difference from natural sample	0
Just barely perceivable difference	1
Weak but definable difference	2
Clearly perceivable difference	3
Strong difference	4

2)

Test Item	Result	Maximum Permissible Limit
	No.1	
Peroxide Value	Absent	Absent

3)

Simulant Used	Temperature and Condition	Extractable components (% w/w)	Maximum Permissible Limit (% w/w)
		No.1	
Distilled Water	Reflux temperature, 5 hours	< 0.1	0.5
3% Acetic Acid (w/v) Aqueous Solution	Reflux temperature, 5 hours	< 0.1	0.5
10% Ethanol (v/v) Aqueous Solution	Reflux temperature, 5 hours	< 0.1	0.5

Note : 1. < = Less than  
 2. % w/w = Percentage of weight by weight

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4)

Test Item	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	No.1	
Organotin		
Monobutyltin (MBT)	N.D.	N.D.
Dibutyltin (DBT)	N.D.	N.D.
Tributyltin (TBT)	N.D.	N.D.
Tetrabutyltin (TTBT)	N.D.	N.D.
Triphenyltin (TPhT)	N.D.	N.D.
Monooctyltin (MOT)	N.D.	N.D.
Diocetyl tin (DOT)	N.D.	N.D.

Note : 1. mg/kg = ppm  
 2. N.D. = Not Detected  
 3. Detection Limit is 0.02 mg/kg

5)

Test Items	Result (% w/w)	Maximum Permissible Limit (% w/w)
	No.1	
Volatile Organic Matter (VOM)	< 0.10	0.5

Note : 1. < = Less than  
 2. % w/w = Percentage of weight by weight

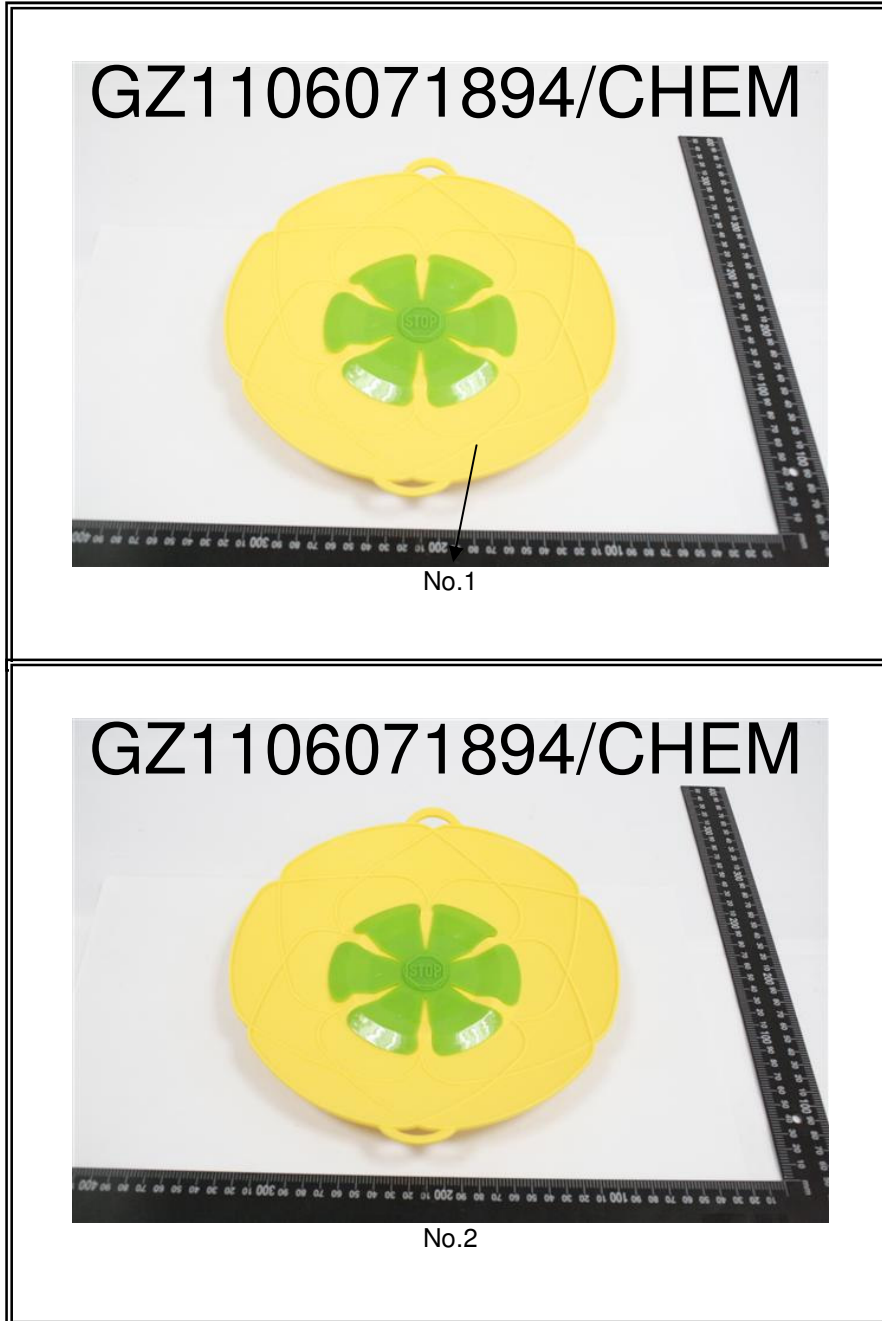
**Test Part Description:**

No. 1 Yellow silicone rubber lid  
 No. 2 Silicone rubber lid

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Sample photo:



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\*\*\* End of Report \*\*\*

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