



Test Report

No.: GZ1103034655/CHEM

Date: APR 07, 2011

Page 1 of 4

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. : GZ13034772EC
SGS Internal Reference No. : 3.2
Client Reference Information : Product material: Silicone rubber
Date of Sample Received : MAR 29, 2011
Testing Period : MAR 29, 2011 TO APR 07, 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) For material: Silicone Rubber – Peroxide value.
2) For material: Silicone Rubber – Volatile organic matter (VOM)
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) Sensorial examination odour and taste test.

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

Test Results : Please refer to the next page.

Conclusion : When tested as specified, the submitted sample(s) comply with the limit as stated in the German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30&31, and BfR recommendation.

Signed for and on behalf of
SGS-CSTC Ltd.

Jenny Jiang
Approved Signatory

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Member of the SGS Group (SGS SA)

Test Results:

1)

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

2)

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

Note: % w/w = Percentage of weight by weight

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

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(TeBT)	N.D.	N.D.
Triphenyltin(TPT)	N.D.	N.D.
Monooctyltin(MOT)	N.D.	N.D.
Diocetyl tin(DOT)	N.D.	N.D.

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

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5)

Test Item	Result	Maximum Permissible Limit
	No.1	
Sensorial examination odour (Point scale)	0	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

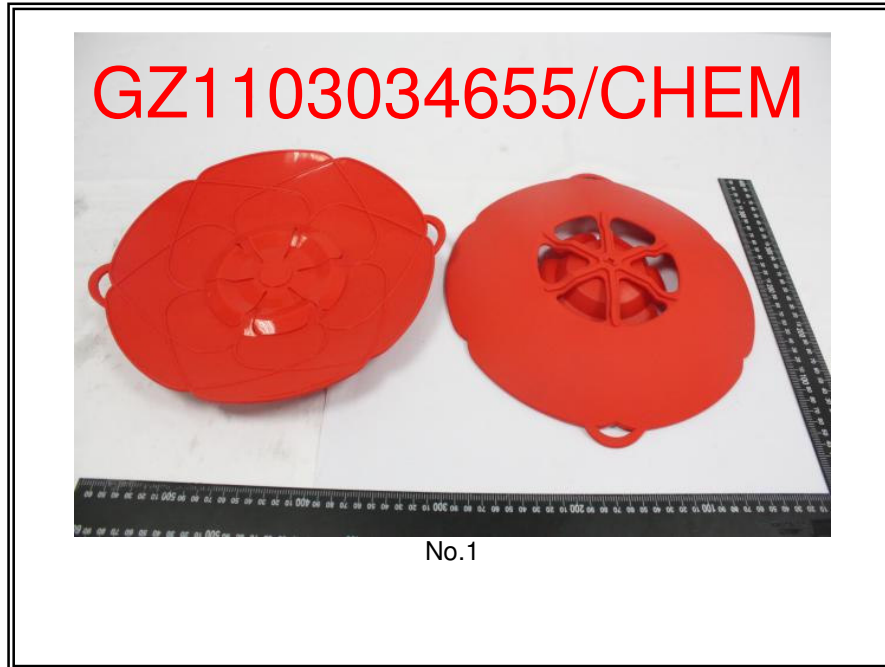
Test Part Description:

No.1 Red silicone rubber lid

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Sample photo :



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*** End of Report ***

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