



Test Report

No.T52210241150TC

Date: MAR 08, 2022

Page 1 of 8

DENNIS MERYEM EINZELUNTERNEHMER
SEIFARTSHOFSTR. 24 96450 COBURG GERMANY

The following samples were submitted and identified by/on behalf of the client as:

SILICONE KITCHEN UTENSIL SPATULA

Item No. : YL027
P.O. No. : PI-129561850001021095-01
Buyer : DENNIS MERYEM
Supplier : HUIZHOU YONGLI INDUSTRIAL CO., LTD
Manufacturer : HUIZHOU YONGLI INDUSTRIAL CO., LTD
Country of Origin : CHINA
Country of Destination : GERMANY

SGS Ref. No. : T32220250005TC
Sample Receiving Date : FEB 23, 2022
Testing Period : FEB 23, 2022 TO MAR 08, 2022



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SGS-CSTC (Shenzhen) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

Room 101-901, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 301-501, Plant 3, Jianghao (Bantian) Industrial Plant Area, No.430, Jilua Road, Bantian Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129 www.sgs.com.cn
中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号 101、3号 301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Requested		Conclusion
1.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 31. (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)	--
	a) Sensorial Examination Odour and Taste Test	PASS
2.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31.	--
	a) Visible Color Migration	PASS
3.	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and BfR recommendation.	--
	a) Silicone rubber – Lead and Cadmium	PASS
	b) Silicone rubber – Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
	c) Silicone rubber – Volatile Organic Matter (VOM)	PASS
	d) Silicone rubber – Extractable Components	PASS
e) Silicone rubber – Platinum Content	PASS	

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center




Qu Ping, Kiky
 Dept. Manager



SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch Testing Center Hardlines

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 中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号101、3号301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

Results:

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

a) Sensory Examination – Odour and Taste Test

Method : With reference to DIN10955:2004-06.
 Test Condition : 100°C for 4 hours
 Test media : Deionised Water
 No. of panelist : 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0.5	2.5
Sensorial examination taste (Intensity scale)	0.5	2.5
Comment	PASS	--

Sample Description:

1. Grey silicone rubber (Spatula)

Note: Intensity scale (rounded at 0.5) :
 0 – no perceptible difference
 1 – just perceptible difference
 2 – slight difference
 3 – marked difference
 4 – strong difference

2. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31.

a) Visible Color Migration

Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Simulant Used	Result	Requirement
	1	
2% Acetic Acid (W/V) Aqueous Solution	No color release observed	No color release
10% Ethanol (V/V) Aqueous Solution	No color release observed	No color release
Comment	PASS	--

Sample Description:

1. Grey silicone rubber (Spatula)



3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and BfR recommendation.

a) Silicone rubber – Lead and Cadmium

Method : i) Lead content : Acid digestion followed by analysis with Atomic Absorption Spectrometry.
 ii) Cadmium content : With reference to EN 1122:2001, Method B

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
	1		
Lead content ⁱ	ND	2	Absent
Cadmium content ⁱⁱ	ND	2	Absent
Comment – Lead and Cadmium	PASS	--	--

Sample Description:

1. Grey silicone rubber (Spatula)

Note : 1. Lead and Cadmium content: mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. dm²/kg = square decimeter per kilogram



b) Silicone rubber – Polycyclic Aromatic Hydrocarbons (PAHs)

Method : With reference to AfPS GS 2019:01 PAK. Analysis was conducted by Gas Chromatography-Mass Spectrometry.

Test Item	CAS Number	Result (mg/kg)	Reporting Limit (mg/kg)	Reference Limit (mg/kg)
		1		
1. Naphthalene	91-20-3	ND	0.1	1
2. Phenanthrene	85-01-8	ND	0.1	1
3. Anthracene	120-12-7	ND	0.1	
4. Fluoranthene	206-44-0	ND	0.1	
5. Pyrene	129-00-0	ND	0.1	
6. Benz[a]anthracene	56-55-3	ND	0.1	
7. Chrysene	218-01-9	ND	0.1	0.2
8. Benzo[b]fluoranthene	205-99-2	ND	0.1	0.2
9. Benzo[k]fluoranthene	207-08-9	ND	0.1	0.2
10. Benzo[j]fluoranthene	205-82-3	ND	0.1	0.2
11. Benzo[e]pyrene	192-97-2	ND	0.1	0.2
12. Benzo[a]pyrene	50-32-8	ND	0.1	0.2
13. Indeno[1,2,3-cd]pyrene	193-39-5	ND	0.1	0.2
14. Dibenz[a,h]anthracene	53-70-3	ND	0.1	0.2
15. Benzo[g,h,i]perylene	191-24-2	ND	0.1	0.2
Sum of PAHs	--	ND	--	1
Comment	--	PASS	--	--

Remark : Reference limits are quoted from German commission for Product Safety (AfPS) – AfPS GS 2019:01 PAK.

Sample Description:

1. Grey silicone rubber (Spatula)

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected



c) Silicone rubber – Volatile Organic Matter (VOM)

Test method : 61. Mitteilung Bundesgesundheitsblatt 46 (2003) 362.

Test condition : 200°C, 4 hours

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Volatile Organic Matter (VOM)	0.11	0.1	0.5
Comment	PASS	--	--

Sample Description:

1. Grey silicone rubber (Spatula)

Note : 1. % w/w = percentage of weight by weight

d) Silicone rubber – Extractable Components

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

Simulant Used	Test Condition	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
		1		
Deionized Water	4 hours at 100°C	ND	0.1	0.5
3% Acetic Acid (W/V) Aqueous Solution	4 hours at 100°C	ND	0.1	0.5
10% Ethanol (V/V) Aqueous Solution	4 hours at 100°C	ND	0.1	0.5
Comment	--	PASS	--	--

Sample Description:

1. Grey silicone rubber (Spatula)

Note : 1. % w/w = percentage of weight by weight
 2. °C = degree Celsius
 3. ND = Not Detected



e) Silicone rubber – Platinum Content

Method : Acid digestion, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Platinum (Pt) content	ND	10	50
Comment	PASS	--	--

Sample Description :

1. Grey silicone rubber (Functional head)

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. The test was conducted by SGS HK LTD, The decision rule of this test item is based on the Binary Statement for Simple Acceptance Rule ($w=0$) in ILAC-G8:09/2019 Clause 4.2.1

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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012): When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability ($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

