

ENSAYO BfR DE SILICONA



TAPÓN SILICONA

VMQ 40 FDA

Nº Reporte: FUFDCP201700958 - 1700958.01/1700958.02 - R0
Ensayos según Recomendaciones Alemanas BfR en silicona
realizados por los laboratorios de Intertek Alemania.



TAPÓN SILICONA

VMQ 40 FDA

TEST REPORT
Food Contact testing according to JIORINGS' request

Fürth, July/12/2017

TEST REPORT NO FUFDCP201700958 - 1700958.01/1700958.02 - RO

Date sample received: May/18/2017
Period of testing: May/24/2017 - July/12/2017 – (Reorder on existing material)
Technical Director: Kerstin Scharrer
Food Contact testing according to client's request

General note:

Copying this test report partially is permitted only in agreement with the contracted lab. The test results refer only to the tested item.
All testing requests are subject to our Terms and Conditions available on www.intertek.com.

Abbreviations:

LOQ = Limit of quantification
LV1 = Legal requirements (GER)
LV2 = Customer specific limit value
n.d. = not determinable
Accr. = Accreditation
IC = inconclusive
* = Test method is part of the accreditation scope
** = Outsourcing
GB/GER = Englisch /German

Sample Overview:

Sample information: 1700958.01 Silicone Plug Type 1

Customer article number: Type1
Additional Information: VMQ 40°FDA
Customer PO-Number: 17 1660



Sample Component(s):

Component # 1 Silicone plug

Matrix:

silicone

Sample information: 1700958.02 Silicone Plug Type 2

Customer article number: Type2
Additional Information: VMQ 40°FDA
Customer PO-Number: 17 1660



Sample Component(s):

Matrix:

Performed Tests and Results for Sample No. 1700958.01 / "Silicone Plug Type 1":

- Tested Composite 1700958.01.001: Silicone plug

Test Package No.00100379 / Peroxides

Test: F771 - Peroxides

Method: BfR - B II/XV (58. Mitt., Bundesgesundheitsblatt 40 (1997): 412)

Test Information

Explanation: 0 = negative; 1 = positive

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Peroxides				0	0		Pass/ -

Test Package No.00100418 / Sensory test §64 LFGB L 00.90-6

Test: F765 - Sensory testing

Method: § 64 LFGB L 00.90-6 2015-06

Accr: *

Test Information

Evaluation scale: 0= no aberration, neutral // 1= very slight aberration, barely perceivable // 2= slight aberration // 3= significant aberration // 4= strong aberration

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Appearance of simulant				0	2.5		Pass/ -
Odour of simulant				1	2.5		Pass/ -
Taste of simulant				1	2.5		Pass/ -

Parameter	Result
Simulant	Water demin / Wasser demin
Time	10 d
Temperature	40 °C

Test Package No.00100422 / Volatile organic compounds (VOC): Silicone

Test: F3105 - Volatile organic compounds (VOC)

Method: BfR - B II/XV (61. Mitt.: Bundesgesundheitsblatt 46 (2003): 362)

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Volatile organic compounds (VOC)		%	0.1	0.4	0.5		Pass/ -

Parameter	Result
Time	10 d
Temperature	40 °C

Test Package No.00101031 / Polycyclic aromatic hydrocarbons

Test: F4437 - Polycyclic aromatic hydrocarbons (PAH)

Method: AfPS GS 2014:01 ; 2014-08

Accr: *

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
1. Naphthalene	91-20-3	mg/kg	0.10	n.d.			- / -
2. Acenaphthylene	208-96-8	mg/kg	0.10	n.d.			- / -
3. Acenaphthen	83-32-9	mg/kg	0.10	n.d.			- / -
4. Fluorene	86-73-7	mg/kg	0.10	n.d.			- / -
5. Phenanthrene	85-01-8	mg/kg	0.10	n.d.			- / -
6. Anthracene	120-12-7	mg/kg	0.10	n.d.			- / -
7. Fluoranthene	206-44-0	mg/kg	0.10	n.d.			- / -
8. Pyrene	129-00-0	mg/kg	0.10	n.d.			- / -
9. Benzo(a)anthracene	56-55-3	mg/kg	0.10	n.d.			- / -
10. Chrysene	218-01-9	mg/kg	0.10	n.d.			- / -
11+18. Benzo(b)fluoranthene + Benzo(j)fluoranthene	205-99-2; 205-82-3	mg/kg	0.10	n.d.			- / -
12. Benzo(k)fluoranthene	207-08-9	mg/kg	0.10	n.d.			- / -
13. Benzo(a)pyrene	50-32-8	mg/kg	0.10	n.d.			- / -
14. Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.10	n.d.			- / -
15. Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.10	n.d.			- / -
16. Benzo(ghi)perylene	191-24-2	mg/kg	0.10	n.d.			- / -
17. Benzo(e)pyrene	192-97-2	mg/kg	0.10	n.d.			- / -
Sum PAH 1-18		mg/kg		n.d.			- / -
Parameter	Result						
Status	pass						

Test Package No.00101032 / Total content Cadmium / Lead (XRF)

Test: F4439 - Lead and Cadmium using X-ray fluorescence spectrometry

Method: EDXRF

Test Information

Cadmium: Limit value: REACH Annex XVII 100 mg/kg = 0.01%

Limit value lead: GMP 100 mg/kg = 0.01%

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Cadmium	7440-43-9	mg/kg	30	n.d.	100		Pass/ -
Lead	7439-92-1	mg/kg	20	n.d.	100		Pass/ -

Test Package No.00101033 / Tin organic compounds

Test: F4441 - Organo tin compounds

Method: ISO/TS 16179 ; 2012-12 resp. DIN EN ISO 17353 2005-11 mod.

Accr: *

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Dimethyltin	diverse	mg/kg	0.01	n.d.			- / -

Monomethyltin	diverse	mg/kg	0.01	n.d.	-/-
Monobutyltin	diverse	mg/kg	0.01	n.d.	-/-
Dibutyltin	diverse	mg/kg	0.01	n.d.	1000 Pass/ -
Tributyltin	diverse	mg/kg	0.01	n.d.	1000 Pass/ -
Monooctyltin	diverse	mg/kg	0.01	n.d.	-/-
Tetrabutyltin	1461-25-2	mg/kg	0.01	n.d.	-/-
Diocetyl tin	diverse	mg/kg	0.01	n.d.	1000 Pass/ -
Tricyclohexyltin	diverse	mg/kg	0.01	n.d.	1000 Pass/ -
Didodecyltin	diverse	mg/kg	0.01	n.d.	-/-

Status: PASS

Test Package No.00101041 / Extractable substances (silicone) - water

Test: F1139 - Extractable compounds of silicones (water)

Method: BfR - B II/XV (61. Mitt.: Bundesgesundheitsblatt 46 (2003): 362)

Test Information

Testing conditions: water demin, 5h / Reflux

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Extractable compounds (water)		%	0.1	n.d.	0.5		Pass/ -

Test Package No.00101042 / Extractable substances (silicone) - acetic acid 3%

Test: F4412 - Extractable compounds of silicones (Acetic acid 3%)

Method: BfR - B II/XV (61. Mitt.: Bundesgesundheitsblatt 46 (2003): 362)

Test Information

Testing conditions: Acetic acid 3%, 5h / reflux

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Extractable compounds (Acetic acid 3%)		%	0.1	n.d.	0.5		Pass/ -

Test Package No.00101043 / Extractable substances (silicone) - Ethanol 10%

Test: F4413 - Extractable compounds of silicones (EtOH 10%)

Method: BfR - B II/XV (61. Mitt.: Bundesgesundheitsblatt 46 (2003): 362)

Test Information

Testing conditions: Ethanol 10%, 5h / reflux

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Extractable compounds (EtOH 10%)		%	0.1	n.d.	0.5		Pass/ -

Performed Tests and Results for Sample No. 1700958.02 / "Silicone Plug Type 2":

- Tested Composite 1700958.02.001: Silicone plug

Test Package No.00100422 / Volatile organic compounds (VOC): Silicone

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Sitz Fürth
Amtsgericht Fürth, HRB 5756
Ust-IdNr. DE169317871

Geschäftsführer:
Michael Jungnitsch

Durch die DAKKS nach DIN EN
ISO/IEC 17025 akkreditiertes
Prüflaboratorium

Die Akkreditierung gilt für die in
der Urkunde aufgeführten
Prüfverfahren.



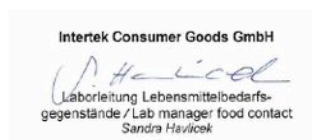
Test: F3105 - Volatile organic compounds (VOC)

Method: BfR - B II/XV (61. Mitt.: Bundesgesundheitsblatt 46 (2003): 362)

Parameter	CAS No	Units	LOQ	Measurement Result	LV1	LV2	LV1/2 (pass/fail)
Volatile organic compounds (VOC)		%	0.1	0.4	0.5		Pass/ -
Parameter	Result						
Time	10 d						
Temperature	40 °C						

Overall Job Comment:

Regarding the tested parameters and based on the provided material information, the present sample (TYPE 1) complies with the reg. (EC) 1935/2004 and the German LFGB.



Test Report approved by authorized manager: Sandra Havlicek
Date: July/12/2017



CERTIFICATE OF COMPLIANCE FOR Jiorings S.L.

**Poligono Erletxe, Plataforma H2, N°5, 48960
Galdakao, BI**

SAMPLE DESCRIPTION: 1700958.01 Silicone Plug Type 1: JA4322F-314027
Material: Silicone

LABORATORY: INTERTEK CONSUMER GOODS GMBH
Würzburger Straße 152,
D-90766 Fürth

The above sample was tested on the 24th May, 2017 / 12nd July, 2017 and the results appear in the Test Report N° FUFDCP201700958 - 1700958.01/1700958.02 - RO. Based on the obtained results, Intertek certifies that such sample complies with the following:

- Analytical Safety testing regarding REGULATION (EC) No 1935/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- Analytical Safety testing regarding German LFGB and BfR recommendation XV for the health related evaluation of on silicone materials and objects for the contact with foodstuff.

Yours faithfully,

Neal Bernuy
Spain Toys & Hardlines Service Manager

Date: 28/07/2017