



**JIORINGS**

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TEST BfR

**BONDESILICONE**

VMQ 40 FDA

N° Rapport: FUFDCP201700958 - 1700958.01/1700958.02 - RO  
Tests effectués selon les recommandations allemandes BfR  
réalisés par les laboratoires d'Intertek Allemagne.

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# BONDESILICONE

## VMQ 40 FDA

### TEST REPORT

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](http://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 24<sup>th</sup> May, 2017 / 12<sup>nd</sup> 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