



Test Report

No.T32220240216SC

Date: Feb 21, 2022

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ANYSEAL N.V.
PREENAKKER 2-4, B-1785, MERCHTEM, BELGIUM

The following samples were submitted and identified by/on behalf of the client as:
O-RING VMQ 70 RED

Case No. : CA322202404339
Our File No. : SP22-003306.001
Item No. : 1370-19002
Sample Receiving Date : FEB 08, 2022
Testing Period : FEB 08, 2022 - FEB 21, 2022

Test Requested	Conclusion
1. French Arrêté du 25 Novembre 1992, French Décret 92-631 and French Décret 2007-766 and its amendments. (Selected test as specified by client)	--
a) Silicone Rubber – Overall Migration	PASS
b) Silicone Rubber – Volatile Organic Matter	PASS
2. Article 3 of European Regulation No. 1935/2004.	--
a) Sensorial Examination - Odour and Taste Test	PASS
3. German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and BfR recommendation. (Selected test as specified by client)	--
a) Silicone – Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
4. Federal Public Health, Safety and Environment of the Food Chain 4 September 2012. - Law amending the Law of 24 January 1977 on the protection of the health of the users in terms of food and other products, in order to ban bisphenol A in food packaging	--
a) Bisphenol A (BPA) content	PASS

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

Signed for and on behalf of
SGS Hong Kong Ltd.

Lam Chi Ho, Jacko
Senior Chemist

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Test Results:
1. French Arrêté du 25 Novembre 1992, French Décret 92-631 and French Décret 2007-766 and its amendments.
a) Silicone Rubber – Overall Migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (1st, 2nd and 3rd migration);
EN 1186-3:2002 aqueous food simulants by total immersion method;
EN 1186-2/13:2002 olive oil by total immersion method;

Simulant Used	Test Condition	Migration Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)	Stability^
		1					
		1 st	2 nd	3 rd			
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 °C	ND	ND	ND	5.0	60	Comply
10% Ethanol (V/V) Aqueous Solution	2 hours at 70 °C	ND	ND	ND	5.0	60	Comply
Rectified Olive Oil	2 hours at 70 °C	116	61.2	42.6	5.0	60	Comply
Comment	--	PASS			--	--	--

Sample Description :

1. Dull red silicone rubber (O-ring)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected

Remark :

1. Compliance is based on the third migration result as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
2. ^ = Compliance is based on the stability of the material from the first to the third migration test results with measurement uncertainty as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
3. Test condition & simulant were specified by client.

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b) Silicone Rubber – Volatile Organic Matter

Method : With reference to French Arrêté du Novembre 1992 Annex III.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Permissible Limit (% w/w)
	1		
Volatile Organic Matter (VOM)	0.4	0.1	0.5
Comment	PASS	--	--

Sample Description :

1. Dull red silicone rubber (O-ring)

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

2. ND = Not Detected

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2. Article 3 of European Regulation No. 1935/2004.

a) Sensorial Examination - Odour and Taste Test

Method : With reference to DIN 10955:2004-06.

Test Condition : 70°C for 2 hours

Test media: Water

No. of panelist: 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0	< 3
Sensorial examination taste (Intensity scale)	1.0	< 3
Comment	PASS	--

Sample Description :

1. Whole sample

Note : 1. < = less than

2. Intensity scale (rounded at 0.5) :

0 – no perceptible difference

1 – just perceptible difference

2 – slight difference

3 – marked difference

4 – strong difference

The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard

Remark:

Test condition and simulant were specified by client

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

a) Silicone – 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. Benzo[a]anthracene	56-55-3	ND	0.1	0.2
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. Dibenzo[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. Dull red silicone rubber (O-ring)

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

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4. Federal Public Health, Safety and Environment of the Food Chain 4 September 2012. - Law amending the Law of 24 January 1977 on the protection of the health of the users in terms of food and other products, in order to ban bisphenol A in food packaging

a) Bisphenol A (BPA) content

Method : Solvent extraction followed by analysis with High Performance Liquid Chromatography – Tandem Mass Spectrometer (HPLC-MS/MS).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Bisphenol A (BPA)	ND	0.1	Prohibited
Comment	PASS	--	--

Sample Description:

1. Dull red silicone rubber (O-ring)

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

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Remark:

1. When statement of conformity is made, unless the decision rule was mentioned in above specified test items, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.
“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”.
“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.
“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

Sample Photo:



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