Docusign Envelope ID: BB9A713E-920A-8227-82CB-08E15F8BB7A6

OLYMPIA

Olympia Tableware, Fourth Way, Avonmouth, Bristol, BS11 8TB
Tel: 0117 316 5000 | Email: enquiries@olympia-tableware.com

Food Contact Declaration of Compliance

Declaration Identification No:	FCMD-Olympia-007

Declaration of Compliance *(tick all that apply)*

☒	On materials and articles in contact with food Regulation (EC) No 1935/2004
☒	Good Manufacturing Practices (GMP, Commission Regulation (EC) No 2023/2006)
☐	BPA and other hazardous bisphenols in materials and articles that come into contact with food Commission Regulation (EU) 2024/3190
☐	Plastic monomers and additives in Regulation 10/2011
☐	For active/intelligent materials in Regulation 450/2009
☐	For recycled plastic processes in Regulation 282/2008
☐	Fo regenerated cellulose film in The Materials and Articles in Contact with Food (England) Regulations 2012

Identification of Food Contact Material

Product Code	Description	Material Type *(e.g. PP / PET / PE / PS – as applicable)*	Intended use
CK939	Olympia Glass Clip-Top Water Dispenser with Base- 8.5Ltr 460(H)x200(W)x210(D)mm	Glass/SS	For storing, infusing, and serving large batches of cold beverages

Composition and BPA / Bisphenol Compliance

In accordance with applicable EU bisphenol requirements:

(1) Bisphenols or bisphenol derivatives intentionally used: None ☐ / Declared below ☐

☒	None
☐	Yes, declared in (2) below

(2) Where Bisphenols or bisphenol derivatives are intentionally used:
(If applicable complete table below):

Substance name	CAS number

The plastic food contact article does not contain intentionally added bisphenol A (BPA) or other restricted bisphenols unless explicitly declared and legally permitted.

Where applicable, compliance with specific migration limits (SMLs) for regulated substances has been verified.

I, the undersigned, declare that the equipment specified above conforms to the Regulations as stipulated within this Declaration.

Signed by:
Ashley Hooper
AB60B7856FFB441...

Nisbets Limited
Avonmouth, United Kingdom – [09.01.2024]
Ashley Hooper
Group Head of Product Quality & Compliance

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Migration Testing Compliance

Migration testing has been performed or substantiated to demonstrate compliance with EU requirements:

Overall Migration:
Verified in accordance with Regulation (EU) No 10/2011, using appropriate food simulants and time/temperature conditions representative of intended use.

Specific Migration:
Specific migration limits (SMLs) for regulated substances listed in Annex I of Regulation (EU) No 10/2011 have been assessed and confirmed as compliant, where applicable.

Testing Approach:

☒	Laboratory testing by an accredited laboratory
☐	Compliance substantiated using supplier declarations and worst-case calculation
☐	Combination of testing and risk-based assessment

Test Conditions Covered *(insert screenshot of test report to satisfy the following section)*:
Simulants, contact time, and temperature conditions reflect worst-case foreseeable use of the product.

Test report:

1. Released Lead, Cadmium, Nickel, Chromium Content

Test Method: With reference to Finnish Decree 267/1992, Analysis was performed by Atomic Absorption Spectrometer.

Test Item(s)	Result(s)	Maximum Permissible Limit	
	1#	For Children	For Adults
Released Lead (mg/dm²)	<0.01	0.05	0.5
Released Cadmium (mg/dm²)	<0.01	0.01	0.1
Released Nickel (mg/dm²)	<0.01	0.2	2
Released Chromium (mg/dm²)	<0.01	0.2	2

Test Item(s)	Result(s)	Maximum Permissible Limit	
	2#	For Children	For Adults
Released Lead (mg/dm²)	<0.01	0.05	0.5
Released Cadmium (mg/dm²)	<0.01	0.01	0.1
Released Nickel (mg/dm²)	<0.01	0.2	2
Released Chromium (mg/dm²)	<0.01	0.2	2

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2. Extractable Heavy Metals

Test Method: Sample prepared with reference to Technical Guide on Metals and Alloys used in food contact materials and articles of the 1st edition in 2013 and by Inductively Coupled Plasma Optical Emission Spectrometer(ICP-OES) and Graphite Furnace Atomic Absorption Spectrometry (GFAAS) analysis

Test condition: 40℃, 10 days with Citric acid (5 g/L)

Test sample No and description: 2#(R) Silvery metal cover

Extractable Elements	The 1st Result (mg/kg)	The 2nd Result (mg/kg)	The 1st + 2nd Result (mg/kg)	7*Limit (mg/kg)	The 3rd Result (mg/kg)	Limit (mg/kg)
Silver (Ag)	N.D.	N.D.	N.D.	0.56	N.D.	0.08
Aluminium (Al)	N.D.	N.D.	N.D.	35	N.D.	5
Chromium (Cr)	0.125	0.042	0.167	1.75	0.034	0.250
Cobalt (Co)	N.D.	N.D.	N.D.	0.14	N.D.	0.02
Copper (Cu)	N.D.	N.D.	N.D.	28	N.D.	4
Iron (Fe)	N.D.	N.D.	N.D.	280	N.D.	40
Magnesium (Mg)	0.041	N.D.	0.041	---	N.D.	---
Manganese (Mn)	0.074	0.014	0.088	12.6	N.D.	1.8
Molybdenum (Mo)	N.D.	N.D.	N.D.	0.84	N.D.	0.12
Nickel (Ni)	0.043	N.D.	0.043	0.98	N.D.	0.14
Tin (Sn)	N.D.	N.D.	N.D.	700	N.D.	100
Titanium (Ti)	N.D.	N.D.	N.D.	---	N.D.	---
Vanadium (V)	N.D.	N.D.	N.D.	0.07	N.D.	0.01
Zinc (Zn)	N.D.	N.D.	N.D.	35	N.D.	5
Antimony (Sb)	N.D.	N.D.	N.D.	0.28	N.D.	0.04
Arsenic (As)	N.D.	N.D.	N.D.	0.014	N.D.	0.002
Barium (Ba)	N.D.	N.D.	N.D.	8.4	N.D.	1.2
Beryllium (Be)	N.D.	N.D.	N.D.	0.07	N.D.	0.01
Cadmium (Cd)	N.D.	N.D.	N.D.	0.035	N.D.	0.005
Lead (Pb)	N.D.	N.D.	N.D.	0.07	N.D.	0.010
Lithium (Li)	N.D.	N.D.	N.D.	0.336	N.D.	0.048
Mercury (Hg)	N.D.	N.D.	N.D.	0.021	N.D.	0.003
Thallium (Tl)	N.D.	N.D.	N.D.	0.0007	N.D.	0.0001

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1.The following table is the MDL of the Extractable Heavy Metals testing

Extractable Elements	MDL(mg/kg)	Extractable Elements	MDL(mg/kg)	Extractable Elements	MDL(mg/kg)
Silver (Ag)	0.01	Molybdenum (Mo)	0.01	Barium (Ba)	0.10
Aluminium (Al)	0.10	Nickel (Ni)	0.01	Beryllium (Be)	0.01
Chromium (Cr)	0.01	Tin (Sn)	0.01	Cadmium (Cd)	0.001
Cobalt (Co)	0.01	Titanium (Ti)	0.01	Lead (Pb)	0.001
Copper (Cu)	0.10	Vanadium (V)	0.01	Lithium (Li)	0.01
Iron (Fe)	5.00	Zinc (Zn)	0.10	Mercury (Hg)	0.001
Magnesium (Mg)	0.01	Antimony (Sb)	0.01	Thallium (Tl)	0.0001
Manganese (Mn)	0.01	Arsenic (As)	0.001	---	---

2. MDL = Method Detection Limit.

3. N.D.= Not detected, less than MDL.

4. The submitted sample/component is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test <7* limit) and the Result 3rd should not exceed the limit.

3. Overall Migration Test

Test Method: With reference to EN 1186-1:2002 for selection of conditions and test methods; EN 1186-3:2022 for overall migration in evaporable simulants.

Surface area(dm^2)/Volume(ml):

3# 1/100 4# 1/100

6# 1/100

Simulants	Unit	Test Condition	Result(s)			Maximum Permissible Limit	Conclusion*
			3#-1st	3#-2nd	3#-3rd		
3% acetic acid	mg/dm^2	10 days at 40℃	<3.0	<3.0	<3.0	10	PASS
50% ethanol	mg/dm^2	10 days at 40℃	<3.0	<3.0	<3.0	10	PASS

Simulants	Unit	Test Condition	Result(s)			Maximum Permissible Limit	Conclusion*
			4#-1st	4#-2nd	4#-3rd		
3% acetic acid	mg/kg	10 days at 40℃	<10	<10	<10	60	PASS
50% ethanol	mg/kg	10 days at 40℃	<10	<10	<10	60	PASS

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Simulants	Unit	Test Condition	Result(s)			Maximum Permissible Limit	Conclusion*
			6#-1st	6#-2nd	6#-3rd		
3% acetic acid	mg/dm²	0.5 hours at 40℃	<3.0	<3.0	<3.0	10	PASS
50% ethanol	mg/dm²	0.5 hours at 40℃	<3.0	<3.0	<3.0	10	PASS

4. Soluble Heavy Metals

Test Method: Sample preparation in 3% Acetic acid at 40℃ for 10 days, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometer.

Surface area(dm²)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		3#-1st	3#-2nd	3#-3rd	
Soluble Aluminium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Antimony	mg/kg	<0.01	<0.01	<0.01	0.04
Soluble Arsenic	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Barium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Cadmium	mg/kg	<0.001	<0.001	<0.001	0.002
Soluble Chromium	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Cobalt	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Copper	mg/kg	<0.1	<0.1	<0.1	5
Soluble Iron	mg/kg	<5	<5	<5	48
Soluble Lead	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Lithium	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Manganese	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Mercury	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Nickel	mg/kg	<0.01	<0.01	<0.01	0.02
Soluble Zinc	mg/kg	<0.1	<0.1	<0.1	5
Soluble Tungsten	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Europium	mg/kg	<0.01	<0.01	<0.01	Sum≤0.05
Soluble Gadolinium	mg/kg	<0.01	<0.01	<0.01	
Soluble Lanthanum	mg/kg	<0.01	<0.01	<0.01	
Soluble Terbium	mg/kg	<0.01	<0.01	<0.01	
Conclusion*	---	**PASS**			---

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Test Method: Sample preparation in 3% Acetic acid at 40℃ for 0.5 hours, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometer.

Surface area(dm^2)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		6#-1st	6#-2nd	6#-3rd	
Soluble Aluminium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Antimony	mg/kg	<0.01	<0.01	<0.01	0.04
Soluble Arsenic	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Barium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Cadmium	mg/kg	<0.001	<0.001	<0.001	0.002
Soluble Chromium	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Cobalt	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Copper	mg/kg	<0.1	<0.1	<0.1	5
Soluble Iron	mg/kg	<5	<5	<5	48
Soluble Lead	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Lithium	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Manganese	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Mercury	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Nickel	mg/kg	<0.01	<0.01	<0.01	0.02
Soluble Zinc	mg/kg	<0.1	<0.1	<0.1	5
Soluble Tungsten	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Europium	mg/kg	<0.01	<0.01	<0.01	Sum≤0.05
Soluble Gadolinium	mg/kg	<0.01	<0.01	<0.01	
Soluble Lanthanum	mg/kg	<0.01	<0.01	<0.01	
Soluble Terbium	mg/kg	<0.01	<0.01	<0.01	
Conclusion*	---	**PASS**			---

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5. Specific Migration of Primary Aromatic Amine

Test Method: Sample preparation with reference to EN 13130-1:2004 with selection of simulant and condition, followed by analysis by LC/MS/MS & UV.

Test Condition: 3% Acetic acid, 10 days at 40℃

Surface area(dm^2)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		3#-1st	3#-2nd	3#-3rd	
4-Aminobiphenyl	mg/kg	<0.001	<0.001	<0.001	0.002
Benzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
2-Naphthylamine	mg/kg	<0.001	<0.001	<0.001	0.002
O-Aminoazotoluene	mg/kg	<0.001	<0.001	<0.001	0.002
5-nitro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloroaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-methoxy-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedianiline	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dichlorobenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethoxybenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethylbenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedi-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
P-Cresidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Methylene-bis-(2-Chloro-aniline)	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-oxydianiline	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Thiodianiline	mg/kg	<0.001	<0.001	<0.001	0.002
O-Toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-methyl-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
2,4,5-Trimethylaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-Aminoazobenzene	mg/kg	<0.001	<0.001	<0.001	0.002
O-Anisidine	mg/kg	<0.001	<0.001	<0.001	0.002
Other Primary Aromatic Amine	mg/kg	<0.01	<0.01	<0.01	Sum≤0.01
Conclusion*	---	**PASS**			---

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Test Condition: 3% Acetic acid, 0.5 hours at 40℃

Surface area(dm²)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		6#-1st	6#-2nd	6#-3rd	
4-Aminobiphenyl	mg/kg	<0.001	<0.001	<0.001	0.002
Benzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
2-Naphthylamine	mg/kg	<0.001	<0.001	<0.001	0.002
O-Aminoazotoluene	mg/kg	<0.001	<0.001	<0.001	0.002
5-nitro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloroaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-methoxy-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedianiline	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dichlorobenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethoxybenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethylbenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedi-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
P-Cresidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Methylene-bis-(2-Chloro-aniline)	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-oxydianiline	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Thiodianiline	mg/kg	<0.001	<0.001	<0.001	0.002
O-Toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-methyl-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
2,4,5-Trimethylaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-Aminoazobenzene	mg/kg	<0.001	<0.001	<0.001	0.002
O-Anisidine	mg/kg	<0.001	<0.001	<0.001	0.002
Other Primary Aromatic Amine	mg/kg	<0.01	<0.01	<0.01	Sum≤0.01
Conclusion*	---	**PASS**			---

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6. Volatile Organic Matter (VOM)

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

Test Condition: 200°C, 4 hours

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		4#	
Volatile organic matter (VOM)	% w/w	0.380	0.5

7. Pentachlorophenol (PCP) Content

Test Method: With reference to §64 LFGB BVL B 82.02-8:2001-06, Analysis was performed by gas chromatography- mass spectrometry (GC-MS).

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		5#	
PCP Content	mg/kg	<0.1	0.15

8. Extractable Formaldehyde

Test Method: Sample preparation in 3% Acetic acid at 40℃ for 10 days with reference to EN 1186 Part 1:2002; followed by analysis using UV-visible Spectrophotometer.

Surface area(dm^2)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		5#	
Extractable formaldehyde	mg/kg	<3	15

Remark: Report the third extractive results.

Remark: 1."According to Regulation (EU) No 10/2011 and its amendment (EU) 2020/1245, for repeated use materials and articles:

1) The applicable overall migration test shall be carried out three times on a single sample. The overall migration in the second test shall be lower than in the first test, and the overall migration in the third test shall be lower than in the second test. Compliance with the overall migration limit shall be verified on the basis of the level of the overall migration found in the third test.

2) Specific migration test(s) shall be carried out three times on a single sample. Compliance shall than be verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. The stability of the material shall be considered insufficient if migration is observed above the level of detection in any of the three migration tests, and increases from the first migration test to the third migration test. In case of insufficient stability, compliance of the material shall not be established even in case the specific migration limit is not exceeded in any of the three tests. Irrespective of the above rules, a material or article shall never be considered to comply with the Regulation if in the first test a substance that is prohibited from migrating or from being released in detectable quantities.

2. (R)=Re-submitted sample.

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1.Released Lead, Cadmium, Nickel, Chromium Content

Test Method: With reference to Finnish Decree 267/1992, Analysis was performed by Atomic Absorption Spectrometer(AAS).

Test Item(s)	Result(s)			Maximum Permissible Limit	
	1#	2#	4#	For Children	For Adults
Released Lead (mg/dm^2)	<0.01	<0.01	<0.01	0.05	0.5
Released Cadmium (mg/dm^2)	<0.01	<0.01	<0.01	0.01	0.1
Released Nickel (mg/dm^2)	<0.01	<0.01	<0.01	0.2	2
Released Chromium (mg/dm^2)	<0.01	<0.01	<0.01	0.2	2

2.Extractable Lead and Cadmium Content

Test Method: As specified in EEC Directive 84/500/EEC and 2005/31/EC.
Analysis was performed by Atomic Absorption Spectrometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample No.: 1#	Result(s)				Category 2 Limit
	1	2	3	4	
Extractable Lead (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1	4.0
Extractable Cadmium (mg/l)	< 0.01	< 0.01	< 0.01	< 0.01	0.3
Volume of 4% Acetic acid used (ml)	600	600	600	600	---
Depth (mm)	107	107	107	107	---
Diameter (mm)	87	87	87	87	---

Sample No.: 2#	Result(s)				Category 2 Limit
	1	2	3	4	
Extractable Lead (mg/l)	< 0.1	< 0.1	< 0.1	< 0.1	4.0
Extractable Cadmium (mg/l)	< 0.01	< 0.01	< 0.01	< 0.01	0.3
Volume of 4% Acetic acid used (ml)	600	600	600	600	---
Depth (mm)	76	76	76	76	---
Diameter (mm)	88	88	88	88	---

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Remark:

Category 1: Articles that cannot be filled and articles that can be filled, the internal depth of which does not exceed 25 mm.

Category 2: Articles, not in categories 1 or 3, which can be filled

Category 3: Cooking ware; packaging and storage vessels having a capacity of more than three liters

Lip and rim area for drinking utensils: With coating or colour within 20 mm along the lip and Rim area which is different from the colour of the interior cavity.

3.Overall Migration Test

Test Method: With reference to EN 1186-1:2002 for selection of conditions and test methods;
EN 1186-2:2022 for overall migration in vegetable oil;
EN 1186-3:2022 for overall migration in evaporable simulants

Surface area(dm^2)/Volume(ml):

3# 1/100 5# 1/100

Simulants	Unit	Test Condition	Result(s)			Maximum Permissible Limit	Conclusion*
			3#-1st	3#-2nd	3#-3rd		
3% acetic acid	mg/dm^2	10 days at 40℃	<3.0	<3.0	<3.0	10	PASS
50% ethanol	mg/dm^2	10 days at 40℃	<3.0	<3.0	<3.0	10	PASS
95% ethanol	mg/dm^2	10 days at 40℃	<3.0	<3.0	<3.0	10	PASS
Isooctane	mg/dm^2	2 days at 20℃	<3.0	<3.0	<3.0	10	PASS

Simulants	Unit	Test Condition	Result(s)			Maximum Permissible Limit	Conclusion*
			5#-1st	5#-2nd	5#-3rd		
3% acetic acid	mg/kg	10 days at 40℃	<10	<10	<10	60	PASS
50% ethanol	mg/kg	10 days at 40℃	<10	<10	<10	60	PASS
Rectified Olive Oil	mg/kg	10 days at 40℃	<10	<10	<10	60	PASS

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4.Soluble Heavy Metals

Test Method: Sample preparation in 3% Acetic acid at 40℃ for 10 days, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometer.

Surface area(dm^2)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		3#-1st	3#-2nd	3#-3rd	
Soluble Aluminium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Antimony	mg/kg	<0.01	<0.01	<0.01	0.04
Soluble Arsenic	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Barium	mg/kg	<0.1	<0.1	<0.1	1
Soluble Cadmium	mg/kg	<0.001	<0.001	<0.001	0.002
Soluble Chromium	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Cobalt	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Copper	mg/kg	<0.1	<0.1	<0.1	5
Soluble Iron	mg/kg	<5	<5	<5	48
Soluble Lead	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Lithium	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Manganese	mg/kg	<0.01	<0.01	<0.01	0.6
Soluble Mercury	mg/kg	<0.01	<0.01	<0.01	0.01
Soluble Nickel	mg/kg	<0.01	<0.01	<0.01	0.02
Soluble Zinc	mg/kg	<0.1	<0.1	<0.1	5
Soluble Tungsten	mg/kg	<0.01	<0.01	<0.01	0.05
Soluble Europium	mg/kg	<0.01	<0.01	<0.01	Sum≤0.05
Soluble Gadolinium	mg/kg	<0.01	<0.01	<0.01	
Soluble Lanthanum	mg/kg	<0.01	<0.01	<0.01	
Soluble Terbium	mg/kg	<0.01	<0.01	<0.01	
Conclusion*	---	**PASS**			---

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5.Specific Migration of Primary Aromatic Amine

Test Method: Sample preparation with reference to EN 13130-1:2004 with selection of simulant and condition, followed by analysis by LC/MS/MS & UV.

Test Condition: 3% Acetic acid, 10 days at 40℃

Surface area(dm^2)/Volume(ml): 1/167

Test Item(s)	Unit	Result(s)			Maximum Permissible Limit
		3#-1st	3#-2nd	3#-3rd	
4-Aminobiphenyl	mg/kg	<0.001	<0.001	<0.001	0.002
Benzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
2-Naphthylamine	mg/kg	<0.001	<0.001	<0.001	0.002
O-Aminoazotoluene	mg/kg	<0.001	<0.001	<0.001	0.002
5-nitro-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-Chloroaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-methoxy-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedianiline	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dichlorobenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethoxybenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
3,3'-Dimethylbenzidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-methylenedi-o-toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
P-Cresidine	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Methylene-bis-(2-Chloro-aniline)	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-oxydianiline	mg/kg	<0.001	<0.001	<0.001	0.002
4,4'-Thiodianiline	mg/kg	<0.001	<0.001	<0.001	0.002
O-Toluidine	mg/kg	<0.001	<0.001	<0.001	0.002
4-methyl-m-phenylenediamine	mg/kg	<0.001	<0.001	<0.001	0.002
2,4,5-Trimethylaniline	mg/kg	<0.001	<0.001	<0.001	0.002
4-Aminoazobenzene	mg/kg	<0.001	<0.001	<0.001	0.002
O-Anisidine	mg/kg	<0.001	<0.001	<0.001	0.002
Other Primary Aromatic Amine	mg/kg	<0.01	<0.01	<0.01	Sum≤0.01
Conclusion*	---	**PASS**			---

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6.Extractable Heavy Metals

Test Method: Sample prepared with reference to Technical Guide on Metals and Alloys used in food contact materials and articles of the 1st edition in 2013 and by Inductively Coupled Plasma Optical Emission Spectrometer(ICP-OES) and Graphite Furnace Atomic Absorption Spectrometry (GFAAS) analysis

Test condition: 40℃, 10 days with Citric acid (5 g/L)

Test sample No and description: 4# Silvery metal cover

Extractable Elements	The 1st Result (mg/kg)	The 2nd Result (mg/kg)	The 1st + 2nd Result (mg/kg)	7*Limit (mg/kg)	The 3rd Result (mg/kg)	Limit (mg/kg)
Silver (Ag)	N.D.	N.D.	N.D.	0.56	N.D.	0.08
Aluminium (Al)	N.D.	N.D.	N.D.	35	N.D.	5
Chromium (Cr)	0.067	0.022	0.089	1.75	N.D.	0.250
Cobalt (Co)	N.D.	N.D.	N.D.	0.14	N.D.	0.02
Copper (Cu)	N.D.	N.D.	N.D.	28	N.D.	4
Iron (Fe)	N.D.	N.D.	N.D.	280	N.D.	40
Magnesium (Mg)	0.026	0.011	0.037	---	N.D.	---
Manganese (Mn)	0.041	N.D.	0.041	12.6	N.D.	1.8
Molybdenum (Mo)	N.D.	N.D.	N.D.	0.84	N.D.	0.12
Nickel (Ni)	0.031	N.D.	0.031	0.98	N.D.	0.14
Tin (Sn)	N.D.	N.D.	N.D.	700	N.D.	100
Titanium (Ti)	N.D.	N.D.	N.D.	---	N.D.	---
Vanadium (V)	N.D.	N.D.	N.D.	0.07	N.D.	0.01
Zinc (Zn)	N.D.	N.D.	N.D.	35	N.D.	5
Antimony (Sb)	N.D.	N.D.	N.D.	0.28	N.D.	0.04
Arsenic (As)	N.D.	N.D.	N.D.	0.014	N.D.	0.002
Barium (Ba)	N.D.	N.D.	N.D.	8.4	N.D.	1.2
Beryllium (Be)	N.D.	N.D.	N.D.	0.07	N.D.	0.01
Cadmium (Cd)	N.D.	N.D.	N.D.	0.035	N.D.	0.005
Lead (Pb)	N.D.	N.D.	N.D.	0.07	N.D.	0.010
Lithium (Li)	N.D.	N.D.	N.D.	0.336	N.D.	0.048
Mercury (Hg)	N.D.	N.D.	N.D.	0.021	N.D.	0.003
Thallium (Tl)	N.D.	N.D.	N.D.	0.0007	N.D.	0.0001

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Remark:

1.The following table is the MDL of the Extractable Heavy Metals testing

Extractable Elements	MDL(mg/kg)	Extractable Elements	MDL(mg/kg)	Extractable Elements	MDL(mg/kg)
Silver (Ag)	0.01	Molybdenum (Mo)	0.01	Barium (Ba)	0.10
Aluminium (Al)	0.10	Nickel (Ni)	0.01	Beryllium (Be)	0.01
Chromium (Cr)	0.01	Tin (Sn)	0.01	Cadmium (Cd)	0.001
Cobalt (Co)	0.01	Titanium (Ti)	0.01	Lead (Pb)	0.001
Copper (Cu)	0.10	Vanadium (V)	0.01	Lithium (Li)	0.01
Iron (Fe)	5.00	Zinc (Zn)	0.10	Mercury (Hg)	0.001
Magnesium (Mg)	0.01	Antimony (Sb)	0.01	Thallium (Tl)	0.0001
Manganese (Mn)	0.01	Arsenic (As)	0.001	---	---

2. MDL = Method Detection Limit.

3. N.D.= Not detected, less than MDL.

4. The submitted sample/component is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test <7* limit) and the Result 3rd should not exceed the limit.

7. Volatile Organic Matter (VOM)

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

Test Condition: 200°C, 4 hours

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		5#	
Volatile organic matter (VOM)	% w/w	<0.05	0.5

8.Pentachlorophenol (PCP) Content

Test Method: With reference to §64 LFGB BVL B 82.02-8:2001-06, Analysis was performed by gas chromatography- mass spectrometry (GC-MS).

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		6#	
PCP Content	mg/kg	<0.1	0.15

9.Extractable Formaldehyde

Test Method: Sample preparation in 3% Acetic acid at 40°C for 10 days with reference to EN 1186 Part 1:2002; followed by analysis using UV-visible Spectrophotometer.

Surface area(dm^2)/Volume(ml):1/167

Test Item(s)	Unit	Result(s)	Maximum Permissible Limit
		6#	
Extractable formaldehyde	mg/kg	<3	15

Remark: Report the third extractive results.

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A1. Sensorial examination odour and taste test – German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 31 with Amendments:

Test method: With reference to DIN 10955:2024-01

Test media: Distilled water.

Test condition: 24h at 40℃.

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	Orange silicone sealing ring	Silicone

Test item(s)	Test result A1	Limit
Sensorial examination odour(point scale)	0.5	2.5
Sensorial examination taste(point scale)	0.5	2.5

Scale evaluation:

0:No perceptible deviation

1:Just perceptible deviation, still difficult to define (Stimulus threshold)

2:Slight deviation, definable (Detection threshold)

3:Significant deviation

4:Strong deviation (This intensity does not necessarily indicate the perceptible maximum)

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A2. Overall migration – Council of Europe Resolution AP (2004) 5 and Article 3 of European Regulation No. 1935/2004:

Test method: With reference to BS EN 1186-1:2002 for selection of conditions and test method;
and EN 1186-3:2022(EN) Materials and articles in contact with foodstuffs - Plastics - Part 3:Test methods for overall migration in evaporable simulants.

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	Orange silicone sealing ring	Silicone

Simulant used	Test condition (for repeated use)	Test result(mg/dm²) A1			Stability	Compliance
		1st	2nd	3rd		
3% Acetic acid	10d at 40℃	<2.0	<2.0	<2.0	PASS	PASS
50% Ethanol	10d at 40℃	<2.0	<2.0	<2.0	PASS	PASS

Note:

1) <= less than.

2) mg/dm² = milligram per square decimeter, mg/kg=milligram per kilogram.

3) **Stability:**The overall migration in the second trial could not exceed the level observed in the first trial, and the overall migration in the third trial could not exceed the level observed in the second trial.

Compliance:Compliance with the overall migration limit should be verified based on the overall migration level found in the third test. A material or article shall never be considered to comply with this Regulation if in the first test a substance that is prohibited from migrating or from being released in detectable quantities under Article 11(4) is detected.

Maximum permissible Limit: 10 mg/dm² or 60mg/kg.

4) Conformance and Stability is according to Commission Regulation(EU) No 10/2011 of 14 January 2011 with Amendments

5) Test condition & simulant were specified by client.

6) Analytical tolerance of evaporable simulants is 2 mg/dm2 or 12 mg/kg, analytical tolerance of olive oil simulant is 3 mg/dm2 or 20 mg/kg.

7) A material or article with overall migration result that exceeds the overall migration limit by an amount not exceeding the analytical tolerance, shall be deemed to be in compliance with the overall migration limit.

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A3. Peroxide value – BfR recommendation XV:

Test method: 58th Communication on the testing of plastics, Bundesgesundheitsblatt 40 (1997) 412.

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	Orange silicone sealing ring	Silicone

Test item	Test result (%) A1	Limit
Peroxide Value	Absent	Absent

A4. Volatile organic matter (VOM) – BfR recommendation XV:

Test Method: Bestimmung von flüchtigen Verbindungen in Bedarfsgegenständen aus Silikon stand:03/2022.

Test condition : 40℃ 10d.

Test Number	Item/ component description(s)	Material (claimed by the client)
A1	Orange silicone sealing ring	Silicone

Test item	Unit	MDL	Test Results A1	Maximum permissible limit
Volatile organic matter (VOM)	% w/w	0.1	N.D.	0.5
Conclusion:			PASS	-

Note:

1) % w/w = percentage of weight by weight

2) N.D. = Not detected, less than MDL(method detect limit).

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A5. PAHs Content: (Unit: mg/kg)

Test method:

With reference to AfPS GS 2019:01 PAK, analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Test Number	Item/ component description(s)
A1	Orange silicone sealing ring

Test Item(s)	CAS No.	MDL	Test Results A1	Limit* Category 1
Naphthalene(NAP)	[91-20-3]	0.1	N.D.	1
Phenanthrene(PHE)	[85-01-8]	0.1	N.D.	1 (sum)
Anthracene(ANT)	[120-12-7]	0.1	N.D.	
Fluoranthene(FLT)	[206-44-0]	0.1	N.D.	
Pyrene(PYR)	[129-00-0]	0.1	N.D.	
Benzo\[a]anthracene(BaA)	[56-55-3]	0.1	N.D.	< 0.2
Chrysene(Chr)	[218-01-9]	0.1	N.D.	< 0.2
Benzo\[b]fluoranthene(BbFA)	[205-99-2]	0.1	N.D.	< 0.2
Benzo\[j]fluoranthene(BjFA)	[205-82-3]	0.1	N.D.	< 0.2
Benzo\[k]fluoranthene(BkFA)	[207-08-9]	0.1	N.D.	< 0.2
Benzo\[a]pyrene(BaP)	[50-32-8]	0.1	N.D.	< 0.2
Benzo\[e]pyrene(BeP)	[192-97-2]	0.1	N.D.	< 0.2
Indeno\[1,2,3-cd]pyrene(IcdP)	[193-39-5]	0.1	N.D.	< 0.2
Dibenzo\[a,h]anthracene(DBahA)	[53-70-3]	0.1	N.D.	< 0.2
Benzo\[g,h,i]perylene(BPE)	[191-24-2]	0.1	N.D.	< 0.2
Sum of 15 PAHs			N.D.	1

Note:

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3)"▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

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Limits for PAHs in Products(mg/kg):

*The limit is specified by Committee on Product Safety (Ausschuss für Produktsicherheit, AfPs) Examination and assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the recognition of the GS Mark effective after 01 July 2020.

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth,or materials in toys according to Directive 2009/48/EC or materials in articles for the use by children up to 3 years of age coming into long term contact with skin (more than 30s) during the intended use	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[6] with skin during the intended or foreseeable use		Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use	
		a.use by children	b.other consumer products	a.use by children	b.other consumer products
BENZO(a)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(e)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(a)ANTHRACENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(b)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(j)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(k)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
CHRYSENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
DIBENZO(a,h)ANTHRACENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(g,h,i)PERYLENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
INDENO(I,2,3-cd)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
PHENANTHRENE, PYRENE, ANTHRACENE, FLUORANTHENE	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
NAPHTHALENE	< 1	< 2		< 10	
Sum of 15 PAHs	< 1	< 5	< 10	< 20	< 50

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A6. Total Lead(Pb) content: (Unit: mg/kg)

Entry 63 of annex XVII of Reach Regulation (EC)No 1907/2006 Amended by Commission Regulation (EU) 2015/628&(EU) 2023/923

Test method: As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A1	Orange silicone sealing ring

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Lead (Pb)	A1	5	N.D.	500	PASS

Note:

1) MDL=Method Detection Limit.

2) N.D. = not detected, less than MDL.

3)"▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

A7. Total Cadmium(Cd) content:(Unit: mg/kg)

Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test method: As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A1	Orange silicone sealing ring

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Cadmium (Cd)	A1	5	N.D.	100	PASS