

TEST REPORT

APPLICANT : Lensen Toppoint B. V
ADDRESS : Stationsweg 14a, Bergentheim The Netherlands
SAMPLE DESCRIPTION : Drinkware
ITEM NO. : LT98758
P.O. NO. : P0801959
BUYER : Lensen Toppoint B. V
COUNTRY OF ORIGIN : China
SAMPLE RECEIVED DATE : 17-Oct-2018
SAMPLE RESUBMISSION DATE : 07-Nov-2018
TURN AROUND TIME : 17-Oct-2018 to 12-Nov-2018

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED/TEST METHOD/REGULATION	RESULT
Total Cadmium Content/REACH Annex XVII, Entry 23	Pass
Phthalates Content/REACH Annex XVII, Entry 51 & 52	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)/German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
Sensorial examination odour and taste test	Pass
Overall Migration	Pass
Specific Migration of Heavy Metal	Pass
Specific migration of Primary Aromatic Amine	Pass
Specific Migration of Bisphenol-A(BPA)	Pass
Peroxide Value	Pass
Specific Migration of Antimony	Pass
Specific migration of Extractable Formaldehyde	Pass
Extractable Component	Pass
Volatile Organic Matter	Pass
Chromium, Vanadium Zirconium and Hafnium Content	Pass
Platinum Content	Pass
Catalyst residue, Lead and Zinc content	Pass
N-nitrosamines and N-nitrosatable content	Pass
Specific Migration of Terephthalic Acid	Pass

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to china.complaint@eurofins.com and referring to this report number.

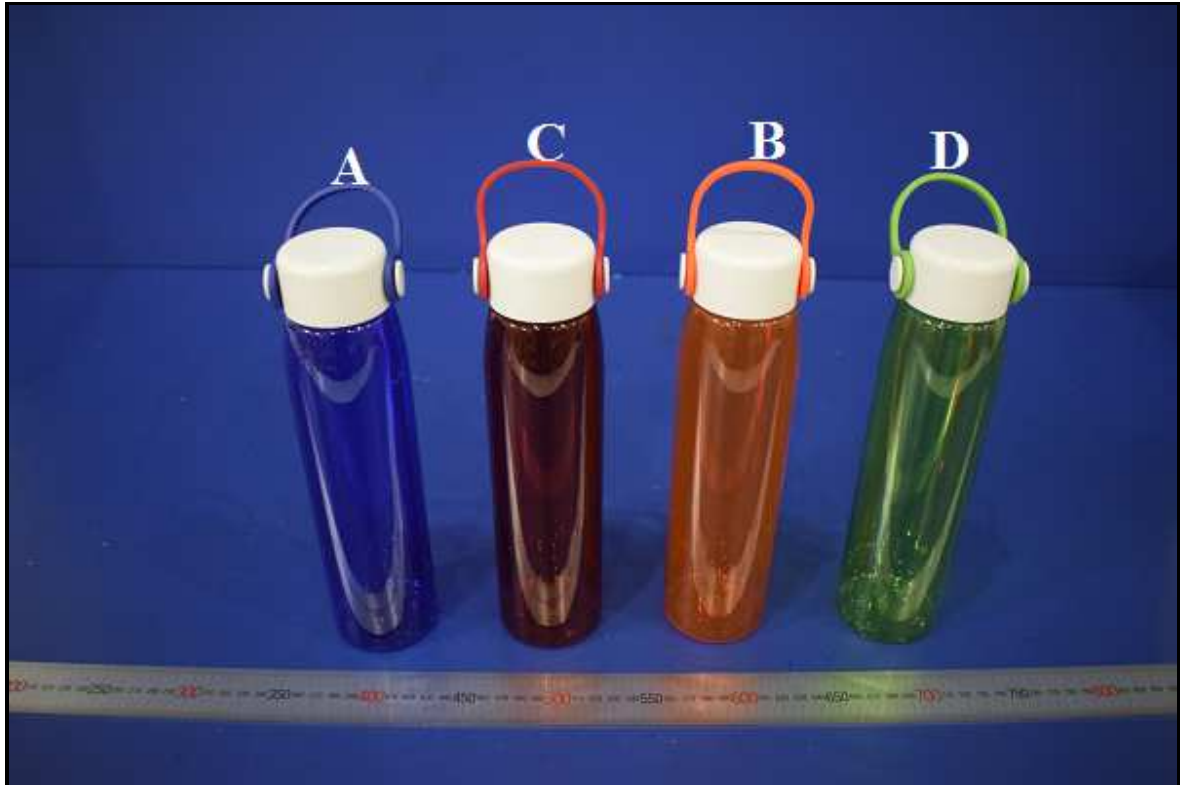
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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd

Lemon Zhang
Chemical Lab Supervisor

SAMPLE PHOTO



EFSH18100878-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	White PP plastic (lid)	A B C D
2	Blue tritan plastic (body)	A
3	Orange tritan plastic (body)	B
4	Red tritan plastic (body)	C
5	Green tritan plastic (body)	D
6	Transparent white silicone	A B C D
7	Blue TPR plastic (handle)	A
8	Orange TPR plastic (handle)	B
9	Red TPR plastic (handle)	C
10	Green TPR plastic (handle)	D

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result			
				1+2+3	4+5	6+7+8	10+9
Total Cadmium(Cd)	%	0.01	0.0005	ND	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates Content as specified in Regulation (EU) 2015/326 amending entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3550C:2007, EPA 8270D:2014, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1+2+3	4+5	6+7+8	10+9
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND
Diisodecylphthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)
 Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement
 Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result				
			1	2	3	4	5
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND	ND	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND	ND	ND	ND
Sum 18 PAHs	-	mg/kg	ND	ND	ND	ND	ND
Conclusion:	For Category 1		Pass	Pass	Pass	Pass	Pass

Parameter	CAS No.	Unit	Result				
			6	7	8	9	10
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND	0.877	ND	0.510
Naphthalene	91-20-3	mg/kg	ND	ND	ND	ND	ND
Sum 18 PAHs	-	mg/kg	ND	ND	0.877	ND	0.510
Conclusion:	For Category 1		Pass	Pass	Pass	Pass	Pass

Remark:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

TO BE CONTINUED

TEST RESULT

Table 1

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys intended long term skin contact (longer than 30s)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact		Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		-	Toys under Directive 2009/48/EC	Other products under ProdSG	Toys under Directive 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*
Naphthalene	mg/kg	<1	<2		<10	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50

* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

*** TO BE CONTINUED ***

TEST RESULT

Sensorial Examination Odour and Taste Test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Regulation (EC) No. 1935/2004 of the European Parliament and of the Council and BfR recommendation. Sensorial examination odour and taste test

Test Method : Robinson's test with reference to DIN 10955:2004-06
Odour test condition: 40°C 6 hours
Taste test condition: 40°C 6 hours
Test media: Distilled water
No. of panelist: 6

Test Item(s)	Limit	Result			
		A	B	C	D
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0	0.0

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation and Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method : By reference to EU 10/2011 for selection of test condition;
 With reference to EN1186-1:2002 for selection of test methods;
 or EN1186-3:2002 aqueous food simulants by total immersion method;
 or EN1186-9:2002 aqueous food simulants by article filling method;
 or EN1186-2:2002 olive oil by total immersion method;
 or EN1186-8:2002 olive oil by article filling method;
 or EN1186-14:2002 substitute test

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				1
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	4
50% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	4.8

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				2
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
50% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	4

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				3
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
50% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				4
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
50% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				5
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
50% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				7
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	3.2
10% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
DI Water	2hours	70°C	10 mg/dm ²	<3

*** TO BE CONTINUED ***

TEST RESULT

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				8
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
10% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
DI Water	2hours	70°C	10 mg/dm ²	<3

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				9
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	7.0
10% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
DI Water	2hours	70°C	10 mg/dm ²	3.0

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm ²)	Result (mg/dm ²)
				10
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
10% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3
DI Water	2hours	70°C	10 mg/dm ²	4.1

Note:

- (1) mg/kg = milligram per kilogram
- (2) mg/dm² = milligram per square decimeter
- (3) Analytical tolerance of aqueous simulants is 1 mg/dm² or 6mg/kg
- (4) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg
- (5) Test condition & simulant were specified by client.

*** TO BE CONTINUED ***

TEST RESULT

Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal for compliance with Commission Regulation (EU) No. 10/2011 and its amendments, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method : With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-OES.

Simulant used : 3% Acetic Acid (W/V) Aqueous Solution

Test condition : 40°C 6hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result				
				1	2	3	4	5
Barium	1	mg/kg	0.25	ND	ND	ND	ND	ND
Cobalt	0.05	mg/kg	0.05	ND	ND	ND	ND	ND
Copper	5	mg/kg	0.25	ND	ND	ND	ND	ND
Iron	48	mg/kg	0.25	ND	ND	ND	ND	ND
Lithium	0.6	mg/kg	0.5	ND	ND	ND	ND	ND
Manganese	0.6	mg/kg	0.05	ND	ND	ND	ND	ND
Zinc	5*	mg/kg	0.5	ND	ND	ND	ND	ND
Aluminium*	1	mg/kg	0.1	ND	ND	ND	ND	ND
Nickel	*0.02	mg/kg	0.01	ND	ND	ND	ND	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client.
- (5) Remark^{***}, requirements of aluminium and zinc shall apply from 14 September 2018, for amendment (EU) No. 2016/1416. The requirement of zinc 25mg/kg as specific migration limit, is still binding before 14 September 2018.

TO BE CONTINUED

TEST RESULT

Specific Migration of Primary Aromatic Amine

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Commission Regulation (EU) No. 10/2011 and its amendments, and BfR recommendation.

Test Method : Sample preparation with reference to EN 13130-1:2004, followed by analysis with UV-Vis.

Simulant used : 3% Acetic acid (W/V) Aqueous Solution

Test condition : 40° C 6hours

Test Item(s)	Limit	Unit	MDL	Result		
				1	2	3
Specific Migration of Primary Aromatic Amine	0.01	mg/kg	0.01	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	Result	
				4	5
Specific Migration of Primary Aromatic Amine	0.01	mg/kg	0.01	ND	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = Not detected
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Migration of Bisphenol-A(BPA)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method : With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by HPLC-MS

Simulant used: 3% Acetic Acid (W/V) Aqueous Solution

Test condition: 40° C 6hours

Test Item(s)	Limit	Unit	MDL	Result				
				1	2	3	4	5
Bisphenol-A(BPA)	0.6	mg/kg	0.02	ND	ND	ND	ND	ND

Note:

- (1) mg/kg =milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Peroxide Value

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, BfR recommendation.

Test Method : With reference to European Pharmacopoeia 8.0 part 2.5.5. Peroxide Value method A.

Test Item(s)	Limit	Test Result	
		1	6
Peroxide Value	Absent	Absent	Absent

TO BE CONTINUED

TEST RESULT

Specific Migration of Antimony

Test Request: To determine the Specific Migration of antimony, by reference with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation and Commission Regulation (EU) No. 10/2011 and its amendments, for materials and articles intended to come into contact with food.

Test Method : With reference to EU 10/2011 for selection of test condition, with reference to BS EN 13130-1:2004 for sample preparation; analysis was performed by ICP-OES/ICP-MS

Simulant used: 3% Acetic Acid (W/V) Aqueous Solution

Test condition: 40°C 6hours

Tested Item(s)	Unit	Limit	MDL	Result			
				2	3	4	5
Specific migration of antimony	mg/kg	0.04	0.01	ND	ND	ND	ND

Remark:

- (1) mg/kg = milligram per kilogram
- (2) ND = not detected, less than MDL
- (3) MDL = method detection limit
- (4) Test condition & simulant were specified by client.

*** TO BE CONTINUED ***

TEST RESULT

Specific Migration of Extractable Formaldehyde

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation
For material: Rubber - Extractable formaldehyde

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

Simulant used : 3% Acetic Acid (W/V) Aqueous Solution
Test condition : 40 °C 6hours

Test Items	Max. Permissible Limit	Unit	MDL	Result			
				7	8	9	10
Specific migration of Extractable formaldehyde	15	mg/l	1	ND	ND	ND	ND

Note:

- (1) mg/L = milligram per litre
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)
- (4) Test condition & simulant were specified by BfR . recommendation.

*** TO BE CONTINUED ***

TEST RESULT

Extractable Component

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, BfR recommendation.
For material: silicon rubber – Extractable component

Test Method : With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46 (2003) 362

Simulant Used	Time	Temperature	Max. Permissible Limit	Test Result
				6
Deionized Water	5.0hr	reflux temperature	0.5%(w/w)	<0.1
3% Acetic Acid	5.0hr	reflux temperature	0.5%(w/w)	<0.1
10% Ethanol	5.0hr	reflux temperature	0.5%(w/w)	<0.1

Note:

%w/w =percentage of weight by weight

*** TO BE CONTINUED ***

TEST RESULT

Volatile Organic Matter

Test Method : With reference to 19. Mitteilung über die Untersuchung von Kunststoffen,
Bundesgesundheitsbl 14 (1971) 265.

Test Condition : 40°C, 6hours

Test Item(s)	Limit	Unit	MDL	Test Result
				6
Volatile Organic Matter	0.5	%(w/w)	0.1	<0.1

Note:

- (1) %w/w = percentage of weight by weight
- (2) MDL = method detection limit

*** TO BE CONTINUED ***

TEST RESULT

Chromium, Vanadium Zirconium and Hafnium Content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Commission Regulation (EU) No. 10/2011 and its amendments, and BfR recommendation.

Test Method : Acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result
				1
Total Chromium	10	mg/kg	5	ND
Total Vanadium	20	mg/kg	20	ND
Total Zirconium	100	mg/kg	20	ND
Total Hafnium	100	mg/kg	20	ND

Note:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

*** TO BE CONTINUED ***

TEST RESULT

Platinum Content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.
For silicon rubber material: Hardener or Catalyst residue, Platinum content

Test Method : Acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result
				6
Total Platinum	100	mg/kg	20	ND

Note:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

*** TO BE CONTINUED ***

TEST RESULT

Catalyst residue, Lead and Zinc content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Council of Europe Resolution AP (2004) 4 and BfR recommendation, European Commission Directive 93/11/EEC.
For material: Rubber - Catalyst residue, Lead and Zinc content

Test Method : Acid digestion, followed by analysis using ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result			
				7	8	9	10
Total Lead content	30	mg/kg	5	ND	ND	ND	ND
Total Zinc content	3	%	0.01	ND	ND	ND	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)

*** TO BE CONTINUED ***

TEST RESULT

N-nitrosamines and N-nitrosatable content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Council of Europe Resolution AP (2004) 4 and BfR recommendation, European Commission Directive 93/11/EEC.
For material: Rubber – N-nitrosamine and N-nitrosatable test

Test Method : Sample preparation with reference to EN 12868:1999, followed by analysis using GC-NPD.

Test Item(s)	Limit	Unit	MDL	Result			
				7	8	9	10
N-nitrosamines	0.01	mg/kg	0.01	ND	ND	ND	ND
N-nitrosatable substances	0.1	mg/kg	0.1	ND	ND	ND	ND

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)

Remark:

- (1) N-nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPHA), N-nitroso-N-phenylamine (NEPHA) and N-nitrosodiisononylamine (NDiNA)
- (2) The specified maximum permissible limits are quoted from 93/11/EC Directive.

*** TO BE CONTINUED ***

TEST RESULT

Specific Migration of Terephthalic Acid

Test Request: To determine the specific migration of Terephthalic acid, in accordance with Commission Regulation (EU) No. 10/2011 and its amendments, and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, for materials and articles intended to come into contact with food and foodstuffs.

Test Method: With reference to EU 10/2011 for selection of test condition, with reference to BS EN 13130-2:2004 for sample preparation, analysis was performed by HPLC-UV/MS.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 40 °C 6hours

Tested Item(s)	Unit	Limit	MDL	Result			
				2	3	4	5
Specific migration of terephthalic acid	mg/kg	7.5	1	ND	ND	ND	ND
Specific migration of Isophthalic acid	mg/kg	5	1	ND	ND	ND	ND

Remark:

- (1) mg/kg = milligram per kilogram
- (2) ND = not detected, less than MDL
- (3) MDL = method detection limit
- (4) Test condition & simulant were specified by client.

*** END OF THE REPORT ***