



# TEST REPORT

Test Report # 18A-004780-1 Date of Report Issue: November 20, 2018  
Date of Sample Received: October 24, 2018 Pages: Page 1 of 12

## CLIENT INFORMATION:

Company:

Address:



## SAMPLE INFORMATION:

Product Name: Hydrate leak proof lockable tritan bottle  
Model/style No.: P436.28  
Main Material: -  
Buyer: -  
Supplier: -  
Country of Distribution: EU  
Testing Period: 10/24/2018-11/02/2018

## OVERALL RESULT:

PASS

Refer to page 2 for test result summary and appropriate notes.

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.  
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# TEST REPORT

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## TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Client's requirement, Bisphenol A content
PASS	German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 , its amendment (EU) 2016/1416 and Res AP(2004)5- Overall migration
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A



**DETAILED RESULTS:****Client's requirement, Bisphenol A content**

Test method: Refer to US EPA 3550C:2007 &amp; US EPA 8270D:2014

Analytical Method: Gas Chromatography-Mass Spectrometer

Sample No.:	1	2	3	---	---	Client's limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	ND	ND	ND	---	---	<b>Not Detected</b>
<b>Conclusion</b>	PASS	PASS	PASS	---	---	

*Note:*

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1mg/kg)



**DETAILED RESULTS:****German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Category 1: Materials, that are intended to be put in the mouth, or materials in toys with Intended and prolonged skin-Contact (Longer than 30 Seconds)

Specimen No.		1	2	3	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo (a) pyrene	50-32-8	ND	ND	ND	---	0.2
Benzo (e) pyrene	192-97-2	ND	ND	ND	---	0.2
Benzo (a) anthracene	56-55-3	ND	ND	ND	---	0.2
Benzo (b) fluoranthene	205-99-2	ND	ND	ND	---	0.2
Benzo (j) fluoranthene	205-82-3	ND	ND	ND	---	0.2
Benzo (k) fluoranthene	207-08-9	ND	ND	ND	---	0.2
Chrysene	218-01-9	ND	ND	ND	---	0.2
Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	---	0.2
Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	---	0.2
Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	---	0.2
Acenaphthylene	208-96-8	ND	ND	ND	---	
Acenaphthene	83-32-9	ND	ND	ND	---	
Fluorene	86-73-7	ND	ND	ND	---	
Phenanthrene	85-01-8	ND	ND	ND	---	
Pyrene	129-00-0	ND	ND	ND	---	
Anthracene	120-12-7	ND	ND	ND	---	
Fluoranthene	206-44-0	ND	ND	ND	---	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene		ND	ND	ND	---	1
Naphthalene	91-20-3	ND	ND	ND	---	1
Sum of 18 PAH		ND	ND	ND	---	1
Conclusion		PASS	PASS	PASS	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

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**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test**

Test Method: DIN 10955: 2004

Test condition: 70°C, 2 hours

Test media: Distilled water

No. of panelist: 6

Specimen No.	4	---	---	---	Max.Permissible
Test Item	Result	Result	Result	Result	Limit
Sensorial examination odour (Point scale)	0	---	---	---	2.5
Sensorial examination taste (Point scale)	0	---	---	---	2.5
<b>Conclusion</b>	PASS	---	---	---	

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 , its amendment (EU) 2016/1416 and Res AP(2004)5-  
Overall migration**

Test method: EN1186-1:2002: for selection of conditions and test methods

EN1186-3:2002: aqueous food simulants by total immersion

EN1186-9:2002: aqueous food simulants by article filling

Specimen No.		1	2	3	Maximum permissible Limit (mg/dm <sup>2</sup> )
Simulant used	Test condition	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	
10% ethanol	2 hours at 70°C	ND	ND	ND	10
3% acetic acid	2 hours at 70°C	ND	ND	4	10
<b>Conclusion</b>		PASS	PASS	PASS	

*Note:*mg/dm<sup>2</sup> = milligram per square decimeterND = Not Detected (Reporting limit = 3 mg/dm<sup>2</sup>)

**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals**

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry/ Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.		1	3	---	---	Maximum permissible Limit (mg/kg)
Test Item	Detection limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Barium	0.1	ND	ND	---	---	1
Cobalt	0.05	ND	ND	---	---	0.05
Copper	0.5	ND	ND	---	---	5
Iron	1.0	ND	ND	---	---	48
Lithium	0.1	ND	ND	---	---	0.6
Manganese	0.1	ND	ND	---	---	0.6
Zinc	1.0	ND	ND	---	---	5
Aluminum	0.1	ND	ND	---	---	1
Nickel	0.01	ND	ND	---	---	0.02
<b>Conclusion</b>		PASS	PASS	---	---	

**Note:**

mg/kg=milligram per kilogram

ND= Not Detected



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines**

Test Method: To refer to the EN 13130-1:2004, the analysis was performed by Gas Chromatography with Mass Spectrometry.

Specimen No.		1	3	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Primary Aromatic Amines migration	70°C, 2h 3% Acetic acid	ND	ND	---	---	Non-detectable
Conclusion		PASS	PASS	---	---	

**Note :**

mg/kg = milligram per kilogram = ppm

MDL = Method Detection Limit

ND = Not Detected (Reporting Limit= 0.01mg/kg )

**Primary Aromatic Amines List:**

No.	Name	No.	Name
1	4-aminodiphenyl	14	p-cresidine
2	Benzidine	15	4,4'-methylene-bis-(2-chloroaniline)
3	4-chloro-o-toluidine	16	4,4'-oxydianiline
4	2-naphthylamine	17	4,4'-thiodianiline
5	o-aminoazotoluene	18	o-toluidine
6	2-amino-4-nitrotoluene	19	2,4-diaminotoluene
7	p-chloroaniline	20	2,4,5-trimethylaniline
8	2,4-diaminoanisole	21	2-methoxyaniline
9	4,4'-diaminodiphenylmethane	22	4-aminoazobenzene
10	3,3'-dichlorobenzidine	23	2,4-Xylidine
11	3,3'-dimethoxybenzidine	24	2,6-Xylidine
12	3,3'-dimethylbenzidine	25	p-Phenylenediamine
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane	26	Aniline



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A**

Test method: EN 13130-1:2004 &amp; DD CEN/TS 13130-13:2005

Specimen No.		3	---	---	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	70°C, 2h 3% Acetic acid	ND	---	---	---	---	0.05
<b>Conclusion</b>		PASS	---	---	---	---	

*Note :*

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.05mg/kg )



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Grey plastic	Lid of blue style(hydrate leak proof lockable tritan bottle)
2	Translucent plastic	Sealing ring of blue style(hydrate leak proof lockable tritan bottle)
3	Transparent blue plastic	Shell of blue style(hydrate leak proof lockable tritan bottle)





**SAMPLE PHOTO:**





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**SAMPLE PHOTO:**



-End Report-

