



TEST REPORT

Test Report # 18A-003496-3 Date of Report Issue: September 4, 2018
Date of Sample Received: August 23, 2018 Pages: Page 1 of 9

CLIENT INFORMATION:

Company:

Address:



SAMPLE INFORMATION:

Product Name: ① Logo Light Up Tumbler; ② Logo Light Up bottle
Model/style No.: ① P432.911; ② P433.251
Main Material: -
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 08/24/2018-08/30/2018

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 RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- 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 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals



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

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

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

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

*Note:*mg/dm² = milligram per square decimeterND = Not Detected (Reporting limit = 3 mg/dm²)The overall migration value is expressed in mg/dm² applying the total contact surface of sealing article and sealed container

**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-Optical Emission Spectrometry

Specimen No.		1	---	---	---	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	---	---	---	1
Cobalt	0.05	ND	---	---	---	0.05
Copper	0.5	ND	---	---	---	5
Iron	1.0	ND	---	---	---	48
Lithium	0.1	ND	---	---	---	0.6
Manganese	0.1	ND	---	---	---	0.6
Zinc	1.0	ND	---	---	---	5
Aluminum	0.1	ND	---	---	---	1
Nickel	0.01	ND	---	---	---	0.02
Conclusion		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	---	---	---	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	---	---	---	Non-detectable
Conclusion		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 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals**

Test method: Sample preparation in 0.5%(5g/L) citric acid/ Artificial tap water at 70°C for 2hours

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

Specimen No:	3					
Test Item(s)	Unit	MDL	1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.1	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.01	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Magnesium(Mg)	mg/kg	0.1	ND	---	ND	---
Manganese (Mn)	mg/kg	0.5	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.05	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.05	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.05	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Titanium(Ti)	mg/kg	0.1	ND	---	ND	---
Vanadium (V)	mg/kg	0.005	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.001	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.005	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.005	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001
Conclusion	PASS					

Note:

(1) mg/kg =milligram per kilogram

(2) SRL = Specific Release Limit

(3) *1 Compliance is established on the result from the third migration test for repeated used articles.

(4) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL

(5) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black plastic	Lid (black style)
2	Translucent soft plastic	Seal ring (black style)
3	Silvery metal	Interior (black style)





SAMPLE PHOTO:





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SAMPLE PHOTO:



-End Report-



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