QIMA
YOUR EYES IN THE SUPPLY CHAIN

ilac-MRA ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1500

TEST REPORT

Test Report #	19H-006882	Date of Report Issue:	October 4, 2019
Date of Sample Received:	September 13, 2019	Pages:	Page 1 of 13

CLIENT INFORMATION:

Company:	Hit Promotional Products
Recipient:	Nathan Cotter
Recipient Email:	ncotter@hitpromo.net

SAMPLE INFORMATION:

Description:	16 Oz. Color Changing Tumbler		
Assortment:	4 colors	Purchase Order Number:	318121
SKU No.:	5811	Agent:	Headwind (Chairs, Bottles)
Factory No.:	129930	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	6 pcs per style + 1 lot Parts	Recommended Age Grade:	-
Testing Period:	09/17/2019 – 10/04/2019	Tested Age Grade:	-

OVERALL RESULT: **PASS**

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

QIMA Testing (HK) Limited

Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Client's Requirement, Bisphenol A and Bisphenol S[#ϕ]
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets[#]
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	3+4	5+6+7	8+9	10+11	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	3+4	5+6+7	8+9	10+11	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

DETAILED RESULTS:

Client's Requirement, Bisphenol A and Bisphenol S

Test Method: In-House Method[#ϕ]
Analytical Method: Liquid Chromatography with Mass Spectrometry or
Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		1	3	4	5	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		6	7	8	9	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		10	12	---	---	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	---	---	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	---	---	**ND**
Conclusion		PASS	PASS	---	---	

Note:
ppb (Parts per billion) = µg/kg (Micrograms per kilogram)
NA = Not applicable
LT = Less than
ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specimen No.			1	---		
Test Item	Test Condition		Result (ppm)	Result (ppm)	**RL (ppm)**	**Limit (ppm)**
	Temp.	Duration				
Distilled water extractive	120°F	24 hours	ND	---	**10**	**50**
		Conclusion	PASS	---		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram foodstuff)
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1210 Table 2 Section 2.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			3	4		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
Density (g/cc)	NA	NA	0.898	0.898	**NA**	**0.85-1.00**
n-Hexane extractive (%)	50°C	2 hours	1.1	ND	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or until total dissolved	2.7	2.2	**1.0**	**30**
		Conclusion	PASS	PASS		

Specimen No.			5	6		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
Density (g/cc)	NA	NA	0.898	0.898	**NA**	**0.85-1.00**
n-Hexane extractive (%)	50°C	2 hours	0.7	1.0	**0.4**	**5.5**
Xylene extractive (%)	Reflux	2 hours or until total dissolved	2.4	2.5	**1.0**	**30**
		Conclusion	PASS	PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 3.1a.

DETAILED RESULTS:

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32
Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			7		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Specimen No.			8		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 181.32 (b) (3).

DETAILED RESULTS:

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32
Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			9		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Specimen No.			10		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 181.32 (b) (3).

DETAILED RESULTS:

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32
Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			12		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 181.32 (b) (3).

DETAILED RESULTS:

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

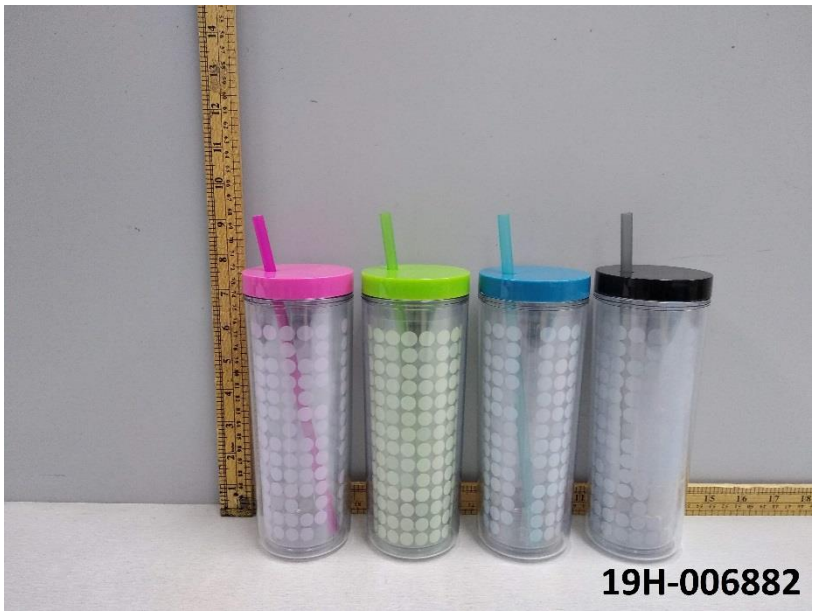
Specimen No.	1	3+4	5+6+7	8+9	10+11	
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	ND	ND	ND	ND	ND	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

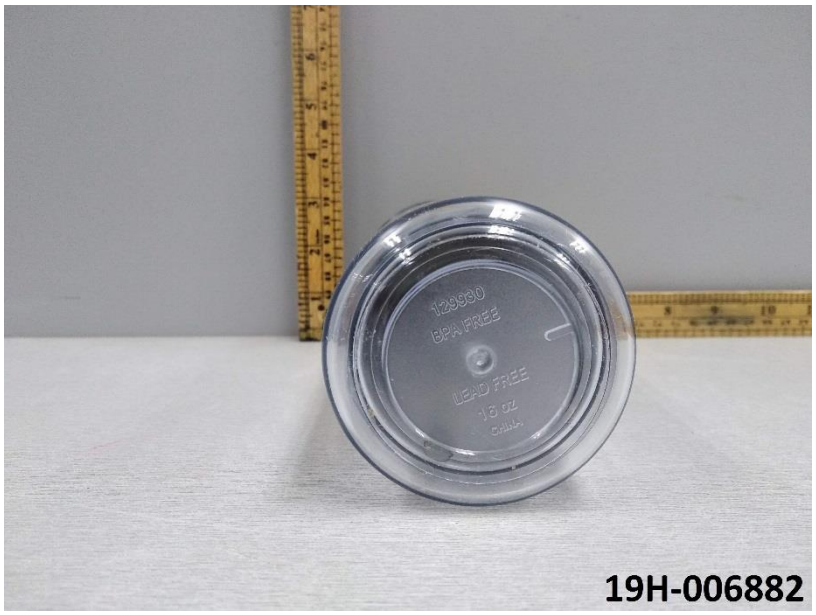
Note:
mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)
LT = Less than
ND = Not detected (Reporting Limit = 20 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Translucent soft plastic (silicone)	Gasket (all styles)
3	Translucent purple plastic (PP-co)	Straw/ ring of straw (pink style)
4	Translucent green plastic (PP-co)	Straw/ ring of straw (green style)
5	Translucent blue plastic (PP-co)	Straw/ ring of straw (blue style)
6	Translucent black plastic (PP-co)	Straw/ ring of straw (black style)
7	Pink plastic (AS)	Lid (pink style)
8	Green plastic (AS)	Lid (green style)
9	Blue plastic (AS)	Lid (blue style)
10	Black plastic (AS)	Lid (black style)
11	Clear plastic	Outer body/ inner body (all style)
12	Clear plastic (AS)	Inner body (all style)

SAMPLE PHOTO:





-End Report-