



# TEST REPORT

Test Report # 18H-009181 Date of Report Issue: December 4, 2018  
 Date of Sample Received: November 26, 2018 Pages: Page 1 of 16

## CLIENT INFORMATION:

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



## SAMPLE INFORMATION:

Description:	25 Oz. Aluminum Ozona Tumbler		
Assortment:	6 colors	Purchase Order Number:	287836
SKU No.:	5725	Agent:	Growth-Sonic
Factory No.:	127827	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	5 pcs per style + 1 lot Dry paint	Recommended Age Grade:	-
Testing Period:	11/26/2018 – 12/04/2018	Tested Age Grade:	-

## OVERALL RESULT:



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

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**TEST RESULTS SUMMARY:**

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

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
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 <sup>#</sup>
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets <sup>#</sup>
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 177.1520, Polyethylene Homopolymers
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers
PASS	Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium <sup>#</sup>
PASS	ASTM B117-16 Resistance to Corrosion <sup>#</sup>
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content



**DETAILED RESULTS:**

**CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+5+6	7+8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>90</b>
<b>Conclusion</b>	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.

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**DETAILED RESULTS:**

**California Proposition 65, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E-1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+5+6	7+8	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	---	---	<b>90</b>
<b>Conclusion</b>	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.

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**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.	9+10+11	12+13	14	15	16	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	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.	9+10+11	12+13	14	15	16	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	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<sup>#</sup>Analytical Method: Liquid Chromatography with Mass Spectrometry or  
Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		9	10	11	12	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	ND
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	ND
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		14	---	---	---	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	---	---	---	ND
Bisphenol S (BPS)	80-09-1	ND	---	---	---	ND
<b>Conclusion</b>		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<sup>#</sup>

Specimen No.			14	---	RL (ppm)	Limit (ppm)
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	120°F	24 Hours	ND	---	<b>10</b>	<b>50</b>
<b>Conclusion</b>			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.			9	10	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.904	0.907	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	ND	ND	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	3.8	3.6	1.0	30
<b>Conclusion</b>			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 177.1520, Polyethylene Homopolymer**

Test Method: FDA 21 CFR 177.1520

Specimen No.			11	---	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.918	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	ND	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	4.4	---	1.0	11.3
<b>Conclusion</b>			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) 2.1.



**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	RL	Limit
Test Simulant	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	<b>0.001</b>	<b>0.003</b>
3% Acetic acid extractive (mg/in <sup>2</sup> )	120°F	2 hours	ND	<b>0.001</b>	<b>0.003</b>
<b>Conclusion</b>			PASS		

*Note:*

Temp. = Temperature

°F = Degree Fahrenheit

mg/in<sup>2</sup> = 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:****Food and Drug Administration Compliance Program Guidance Manual 7304.019 Chapter 04 Toxic Elements in Food and Foodware - Leachable Lead and Cadmium**Test Method: ASTM C738-94(Reapproved 2011)<sup>#</sup>, In-House Method<sup>#</sup>

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	17A	17B	17 C	17D	17E	17F	Average (ppm)	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)		
Volume of acid used (mL)	710	710	710	710	710	710		
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	<b>0.5</b>
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	<b>2.0</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	PASS		

**Note:**

mL = Millilitres

ppm (Parts per million) = mg/L (Milligrams per litre)

NA = Not applicable

LT = Less than

ND = Not detected (Reporting Limit: Pb = 0.04 ppm; Cd = 0.02 ppm)

**Remark:**

The specification is referred from FDA CPG 545.400 &amp; CPG 545.450.

Category		Leachable Cd (mg/L)	Leachable Pb (mg/L)
	Cups and Mugs (Any of 6)	<b>0.5</b>	<b>0.5</b>
	Flatware (Average of 6)	<b>0.5</b>	<b>3.0</b>
	Large Hollowware (Any of 6)	<b>0.25</b>	<b>1.0</b>
X	Small Hollowware (Any of 6)	<b>0.5</b>	<b>2.0</b>
	Pitchers (Any of 6)	<b>0.25</b>	<b>0.5</b>

**DETAILED RESULTS:****ASTM B117-16 Resistance to Corrosion**

Test Method: ASTM B117-16#  
Analytical Method: Salt Spray (Fog) Apparatus  
Evaluation: In-house rating

Specimen no.:	18	Rating	Conclusion
Condition	Observation		
1% Sodium chloride solution for 24 hours	Rusting was not found on test sample.	6	PASS

## Notes:

NR = Not required; NA = Not applicable

Rating (quantity of defect): Rating 6 = Completely free of corrosion  
Rating 5 = Very minor, i.e., little or barely corrosion  
Rating 4 = Minor, i.e., little but significant corrosion  
Rating 3 = Moderate, i.e., scattered corrosion  
Rating 2 = Extensive, i.e., considerable corrosion  
Rating 1 = Severe, i.e., dense corrosion

Requirement: Rating 6 = PASS; Rating 5 or below = FAIL (See Failure photo)

**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+2+3	4+5+6	7+8	9+10+11	12+13	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	90
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	14	15	16	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	---	---	90
<b>Conclusion</b>	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 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Translucent lacquer	Outer wall (all styles)
2	Red coating	Outer wall (red style)
3	Orange coating	Outer wall (orange style)
4	Light green coating	Outer wall (lime style)
5	Green coating	Outer wall (green style)
6	Blue coating	Outer wall (blue style)
7	Black coating	Outer wall (black style); base (lime styles)
8	White coating	Base (orange/ red/ blue/ black/ green styles)
9	Black plastic (PP-co)	Ring of body (all styles)
10	Grey plastic (PP-co)	Lid (all styles)
11	Transparent plastic (PE-homo)	Straw (all styles)
12	Transparent black plastic (AS)	Spout (all styles)
13	Light grey plastic	Handle (all styles)
14	Translucent soft plastic (Silicone)	Gasket (all styles)
15	Silvery metal	Body of bottle (all styles)
16	Dull silvery metal	Screw (all styles)
17	Matt silvery metal	Interior of bottle (all styles)
18	Complete product	Food contact metal part only (all styles)



**SAMPLE PHOTO:**



-End Report-