





## TEST REPORT

Test Report # 19H-004255 Date of Report Issue: June 28, 2019

Date of Sample Received: June 11, 2019 Pages: Page 1 of 14

**CLIENT INFORMATION:** 

Company: Hit Promotional Products

Recipient: Nathan Cotter

Recipient Email: ncotter@hitpromo.net





**SAMPLE INFORMATION:** 

Description: 22 Oz. Vortex Stainless Steel Tumbler

Assortment: 1 color Tumbler / 4 color Purchase Order Number: 317158

Lid

SKU No.: 5771 Agent: Growth-Sonic

Factory No.: 127610 Country of Origin: China

Country of Distribution: United States Labeled Age Grade: -

Quantity Submitted: 5 pcs (Lids) per style, Recommended Age Grade: -

11 pcs (Tumbler)

Testing Period: 06/12/2019 – 06/21/2019 Tested Age Grade: -

06/24/2019 - 06/28/2019

**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

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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, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers#
PASS	Client's Requirement, Bisphenol A and Bisphenol S#
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets#
PASS	FDA 21 CFR 177.1240, 1,4-Cyclohexylene Dimethylene Terephthalate and 1,4-Cyclohexylene Dimethylene Isophthalate Copolymer#
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

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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.	1+2+3	4+5+6	7+8	9	10	Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					100
Conclusion	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 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+2+3	4+5+6	7+8	9	10	Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					100
Conclusion	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:**

## FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method: In-House Method#

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	10					
Test Item	Result (% m/m)	Limit (% m/m)				
Total Chromium (Cr)	16.6					GT 16
Conclusion	PASS					

Note:

% m/m = Percent by mass GT = Greater than

Remark:

The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.



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### **DETAILED RESULTS:**

## Client's Requirement, Bisphenol A and Bisphenol S

Test Method: In-House Method\*

Analytical Method: Liquid Chromatography with Mass Spectrometry or

Liquid Chromatography with Mass Spectrometry Mass Spectrometry

Specimen No.		1	2	3	4	
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
Conclusi	on	PASS	PASS	PASS	PASS	

Specimen No.		5	6	7	8	
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
Conclusi	on	PASS	PASS	PASS	PASS	

Specimen No.		9				
Test Item CAS No.	Result	Result	Result	Result	Limit	
	CAS NO.	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Bisphenol A (BPA)	80-05-7	ND				ND
Bisphenol S (BPS)	80-09-1	ND				ND
Conclusi	ion	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)

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## **DETAILED RESULTS:**

## FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specimen No.			9			
Test Condition			Result	Result	RL	Limit
Test Item	Temp.	Duration	(ppm)	(ppm)	(ppm)	(ppm)
Distilled water extractive	Fill boiling	Until Cool to 100 <sup>0</sup> F	ND		10	50
	Conclusion					

### 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.

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## **DETAILED RESULTS:**

# FDA 21 CFR 177.1240, 1,4-Cyclohexylene Dimethylene Terephthalate and 1,4- Cyclohexylene Dimethylene Isophthalate Copolymer

Test Method: FDA 21 CFR 177.1240#

Specime	1	2				
Test Item	Test Co Temp.	ndition Duration	Result (%)	Result (%)	RL (%)	Limit (%)
Distilled water extractive	Reflux	2 hours	LT 0.02	LT 0.02	0.01	0.05
n-Hexane extractive	Reflux	2 hours	LT 0.02	LT 0.02	0.01	0.05
Ethyl acetate extractive	Reflux	2 hours	0.550	0.533	0.01	0.7
		Conclusion	PASS	PASS		

Specime	3	4				
Test Item		ndition Duration	Result (%)	Result (%)	RL (%)	Limit
Distilled water extractive	Temp. Reflux	2 hours	LT 0.02	LT 0.02	0.01	(%) 0.05
	Reflux					
n-Hexane extractive		2 hours	LT 0.02	LT 0.02	0.01	0.05
Ethyl acetate extractive	Reflux	2 hours	0.524	0.512	0.01	0.7
		Conclusion	PASS	PASS		

Note:

Temp. = Temperature

% w/w = Percent by weight

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

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### **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	5				
Tost Simulant	Test Condition		Danille	DI	Limait
Test Simulant	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in²) 120°F 2 hours			ND	0.001	0.003
Conclusion	PASS				

Specimen No	6				
Test Simulant	Test Condition		Dooult	RL	Limit
Test Simulant	Temp.	Duration	Result	KL	LIIIIL
Distilled water extractive (mg/in²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in²) 120°F 2 hours			ND	0.001	0.003
Conclusion	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).

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## **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				
Tost Simulant	Test Condition		Danille	DI	limait
Test Simulant	Temp.	Duration	Result	RL	Limit
Distilled water extractive (mg/in²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in²) 120°F 2 hours			ND	0.001	0.003
Conclusion	PASS				

Specimen No	8				
Test Simulant	Test Condition		Dooult	RL	Limit
Test Simulant	Temp.	Duration	Result	KL	Lillit
Distilled water extractive (mg/in²)	120°F	2 hours	ND	0.001	0.003
3% Acetic acid extractive (mg/in²) 120°F 2 hours		ND	0.001	0.003	
Conclusion	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).

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### **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	
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	

Specimen No.	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					90
Conclusion	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.

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### **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Clear red plastic (PCTG)	Slider (lid(red) style)
2	Clear green plastic (PCTG)	Slider (lid(lime) style)
3	Clear blue plastic (PCTG)	Slider (lid(blue) style)
4	Clear grey plastic (PCTG)	Slider (lid(grey) style)
5	Transparent red plastic (AS)	Lid (lid(red) style)
6	Transparent green plastic (AS)	Lid (lid(lime) style)
7	Transparent blue plastic (AS)	Lid (lid(blue) style)
8	Transparent grey plastic (AS)	Lid (lid(grey) style)
9	Black soft plastic (Silicone)	Gasket (all styles)
10	Silvery metal (304SS)	Inner wall (tumbler style)
11	Dull silvery metal	Outer wall/ bottom (tumbler style)



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### **SAMPLE PHOTO:**





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### **SAMPLE PHOTO:**



-End Report-

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