



# TEST REPORT

Test Report # 18H-004671 Date of Report Issue: July 30, 2018  
 Date of Sample Received: June 29, 2018 Pages: Page 1 of 14

## CLIENT INFORMATION:

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



## SAMPLE INFORMATION:

Description:	16oz. Stainless Steel Tumbler	Purchase Order Number:	257006
Assortment:	5 colors	Agent:	Growth-Sonic
SKU No.:	5662	Country of Origin:	China
Factory No.:	127959	Labeled Age Grade:	-
Country of Distribution:	United States	Recommended Age Grade:	-
Quantity Submitted:	5 pcs per style + 1 lot Parts	Tested Age Grade:	-
Testing Period:	07/03/2018 – 07/11/2018 07/27/2018 – 07/30/2018		

## OVERALL RESULT:

**PASS with information**

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	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
Refer to Detailed Results	FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers <sup>#</sup>
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	Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates
PASS	ASTM B117-16 Resistance to Corrosion <sup>#</sup>

**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.	6+7+8	9+10	11+12+13	14+15+16	18	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.	6+7+8	9+10	11+12+13	14+15+16	18	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:****FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers**Test Method: In-House Method<sup>#</sup>

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	17	---	---	---	---
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Total Chromium (Cr)	13.1	---	---	---	---
<b>Conclusion</b>	Information Only	---	---	---	---

*Note:*

% m/m = Percent by mass

GT = Greater than

**DETAILED RESULTS:****Client's Requirement, Bisphenol A and Bisphenol S**Test Method: In-House Method<sup>#</sup>

Analytical Method: Liquid Chromatography with Mass Spectrometry

Specimen No.		1	2	3	4	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.		5	11	12	13	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	15	16	---	Limit (ppb)
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	---	ND
Bisphenol S (BPS)	80-09-1	ND	ND	ND	---	ND
<b>Conclusion</b>		PASS	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<sup>#</sup>

Specimen No.			11	---		
Test Item	Test Condition		Result (ppm)	Result (ppm)	RL	Limit
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	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 177.1210, Closures with Sealing Gaskets**Test Method: FDA 21 CFR 177.1210<sup>#</sup>

Specimen No.			12	13	RL	Limit
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	ND	ND	<b>10</b>	<b>50</b>
<b>Conclusion</b>			PASS	PASS		

Specimen No.			14	15	RL	Limit
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	ND	ND	<b>10</b>	<b>50</b>
<b>Conclusion</b>			PASS	PASS		

Specimen No.			16	---	RL	Limit
Test Item	Test Condition		Result (ppm)	Result (ppm)		
	Temp.	Duration				
Distilled water extractive	Fill boiling	Until Cool to 100°F	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 3.



**DETAILED RESULTS:****FDA 21 CFR 177.1520, Polypropylene Copolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			1	2	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.901	0.903	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.6	0.6	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	2.2	2.6	1.0	30
<b>Conclusion</b>			PASS	PASS		

Specimen No.			3	4	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.902	0.905	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.5	0.4	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	1.0	1.5	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, Polypropylene Copolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			5	---	RL	Limit
Test Item	Temp.	Duration	Result	Result		
Density (g/cc)	NA	NA	0.904	---	NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	0.6	---	0.4	5.5
Xylene extractive (%)	Reflux	2 hours or until total dissolved	1.6	---	1.0	30
<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) 3.1a.

**DETAILED RESULTS:****Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates**

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.	6+7+8	9+10	11+12+13	14+15+16	18	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	<b>90</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:****ASTM B117-16 Resistance to Corrosion**

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

Specimen no.:	17	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

**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Red plastic (PP-co)	Lid/ inner wall (red style)
2	Orange plastic (PP-co)	Lid/ inner wall (orange style)
3	Green plastic (PP-co)	Lid/ inner wall (green style)
4	Blue plastic (PP-co)	Lid/ inner wall (blue style)
5	Black plastic (PP-co)	Lid/ inner wall (black style)
6	Red plastic	Lid/ inner wall/ outer wall/ bottom/ flip (red style)
7	Orange plastic	Lid/ inner wall/ outer wall/ bottom/ flip (orange style)
8	Green plastic	Lid/ inner wall/ outer wall/ bottom/ flip (green style)
9	Blue plastic	Lid/ inner wall/ outer wall/ bottom/ flip (blue style)
10	Black plastic	Lid/ inner wall/ outer wall/ bottom/ flip (black style)
11	Black soft plastic (Silicone)	Gasket (all styles)
12	Red soft plastic (TPR)	Gasket of flip (Red style)
13	Orange soft plastic (TPR)	Gasket of flip (orange style)
14	Green soft plastic (TPR)	Gasket of flip (green style)
15	Blue soft plastic (TPR)	Gasket of flip (blue style)
16	Dull black soft plastic (TPR)	Gasket of flip (black style)
17	Silvery metal (201#)	Outer lid (all styles)
18	Silvery metal	Outer lid/ sleeve (all styles)



**SAMPLE PHOTO:**



-End Report-