

## TEST REPORT

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

Test Report # 16H-01103  
 Date of Issue: March 23, 2016  
 Pages: Page 1 of 10  
 Date Received: March 15, 2016

### SAMPLE INFORMATION:

Description:	16oz. Tumbler	Purchase Order Number:	158222
Assortment:	4 colors	Agent:	Growth-Sonic
SKU No.:	5754	Country of Origin:	China
Factory No.:	127827	Labeled Age Grade:	-
Country of Distribution:	United States	Recommended Age Grade:	-
Quantity Submitted:	5 pcs per style	Tested Age Grade:	-
Testing Period:	03/15/2016 – 03/23/2016		

### OVERALL RESULT:

PASS

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	Client's Requirement: Bisphenol A <sup>#</sup>
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets for Food Containers <sup>#</sup>
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

ANSECO GROUP (HK) LIMITED



Vincent Chow Wai Kit  
 Manager, Chemical Laboratory

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### DETAILED RESULTS:

#### CPSIA Section 101, Total Lead in Substrate Materials

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced regulation.

[Referenced Test Method: CPSC-CH-E1001-08.2 (Metal) and/or CPSC-CH-E1002-08.2 (Non-Metal)]

Specimen No.	1+2+3	4+5	6+7+8	9+10+11	12+13+14	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	ND	ND	ND	ND	100
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

*Note:*

Pb = Lead

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:

#### Client's Requirement: Bisphenol A

Analysis performed by High Performance Liquid Chromatography with Fluorescence Detector to determine compliance with the above specification. [Referenced Test Method: AI|ANSECO Method#]

Specimen No.	1	6	7	8	9	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	10	11	12	13	---	Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Bisphenol A	ND	ND	ND	ND	---	ND
<b>Conclusion</b>	PASS	PASS	PASS	PASS	---	

*Note:*

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not Detected (Reporting limit = 1 ppm)

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### DETAILED RESULTS:

#### FDA 21 CFR 177.1210, Closures with Sealing Gaskets for Food Containers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1210#]

Specimen No.		1		Result	RL	Specification
Test Item	Test Condition		Temperature			
	Distilled water extractive (ppm)	Fill boiling, cool to 100°F		70 minutes	ND	10
<b>Conclusion</b>			PASS			

*Note:*

°F = Degree Fahrenheit  
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)  
 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 177.1520, Polypropylene Homopolymers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			6	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.906	NA	0.880–0.913
Melting point (°C)	NA	NA	166.2	NA	150-180
n-Hexane extractive (% w/w)	Reflux	2 hours	1.2	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	1.4	0.5	9.8
<b>Conclusion</b>			PASS		

Specimen No.			7	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.905	NA	0.880–0.913
Melting point (°C)	NA	NA	166.3	NA	150-180
n-Hexane extractive (% w/w)	Reflux	2 hours	1.1	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	1.5	0.5	9.8
<b>Conclusion</b>			PASS		

**Note:**

°C = Degree Celsius  
 g/cc = Grams per cubic centimeter  
 % w/w = 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) 1.1.

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### DETAILED RESULTS:

#### FDA 21 CFR 177.1520, Polypropylene Homopolymers

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.1520]

Specimen No.			8	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.905	NA	0.880–0.913
Melting point (°C)	NA	NA	167.2	NA	150-180
n-Hexane extractive (% w/w)	Reflux	2 hours	1.2	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	4.4	0.5	9.8
<b>Conclusion</b>			PASS		

Specimen No.			9	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.905	NA	0.880–0.913
Melting point (°C)	NA	NA	166.5	NA	150-180
n-Hexane extractive (% w/w)	Reflux	2 hours	1.1	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	1.2	0.5	9.8
<b>Conclusion</b>			PASS		

*Note:*

°C = Degree Celsius  
 g/cc = Grams per cubic centimeter  
 % w/w = 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) 1.1.

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### DETAILED RESULTS:

#### FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Analysis performed by food simulating solvents extractions and Headspace-Gas Chromatography/Mass Spectrometry to determine compliance with above referenced regulations.  
 [Referenced Test Method: FDA 21 CFR 180.22 and 181.32]

#### Acrylonitrile Monomers:

Specimen No.			10	RL	Specification
Test Simulant	Test Condition		Result		
	Temperature	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		

Specimen No.			11	RL	Specification
Test Simulant	Test Condition		Result		
	Temperature	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:**

°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

Analysis performed by food simulating solvents extractions and Headspace-Gas Chromatography/Mass Spectrometry to determine compliance with above referenced regulations.  
 [Referenced Test Method: FDA 21 CFR 180.22 and 181.32]

#### Acrylonitrile Monomers:

Specimen No.			12	RL	Specification
Test Simulant	Test Condition		Result		
	Temperature	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		

Specimen No.			13	RL	Specification
Test Simulant	Test Condition		Result		
	Temperature	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:**

°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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### SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Translucent soft plastic (Silicone)	Gasket (all styles)
2	Red soft plastic	Rings (red style)
3	Green soft plastic	Rings (green style)
4	Blue soft plastic	Rings (blue style)
5	Grey soft plastic	Rings (grey style)
6	Red plastic (PP-homo)	Lid/ cap (red style)
7	Green plastic (PP-homo)	Lid/ cap (green style)
8	Blue plastic (PP-homo)	Lid/ cap (blue style)
9	Grey plastic (PP-homo)	Lid/ cap (grey style)
10	Dull red plastic (AS)	Inner body (red style)
11	Dull green plastic (AS)	Inner body (green style)
12	Dull blue plastic (AS)	Inner body (blue style)
13	Dull grey plastic (AS)	Inner body (grey style)
14	Black plastic	Outer body (all styles)

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### SAMPLE PHOTO:



-End Report-

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