

## TEST REPORT

Company:	Hit Promotional Products	Test Report #	16H-01622
Recipient:	Nathan Cotter	Date of Issue:	May 05, 2016
Recipient Email:	ncotter@hitpromo.net	Pages:	Page 1 of 15
cc to Email:	nbarahona@hitpromo.net	Date Received:	April 08, 2016

### SAMPLE INFORMATION:

Description:	23oz. Fluorescent Bottle with Flip Top		
Assortment:	5 colors	Purchase Order Number:	160625
SKU No.:	5814	Agent:	Growth-Sonic
Factory No.:	127710	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	5 pcs (Pink), 4 pcs (Orange, Lime, Green, Blue) + 1 lot Parts	Recommended Age Grade:	-
Testing Period:	04/08/2016 – 04/18/2016 04/29/2016 – 05/05/2016	Tested Age Grade:	-

### OVERALL RESULT:

**PASS**

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

ANSECO GROUP (HK) LIMITED



Vincent Chow Wai Kit  
Manager, Chemical Laboratory

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Date of Issue: May 05, 2016  
Pages: Page 2 of 15  
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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, Polyethylene
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.2600, Rubber Articles Intended for Repeated Use
PASS	FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

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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	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	

Specimen No.	13+14	---	---	---	---	Limit Total (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Pb	ND	---	---	---	---	100
<b>Conclusion</b>	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	2	3	4	5	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.	6	7	8	9	10	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.	11	12	13	14	---	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.			13	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Distilled water extractive (ppm)	120°F	24 hours	ND	<b>10</b>	<b>50</b>
<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, Polyethylene

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

Specimen No.			7	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.902	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.7	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.4	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			8	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.905	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.6	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.3	1.0	11.3
<b>Conclusion</b>			PASS		

*Note:*

°C = Degree Celcius  
 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) 2.1.

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### DETAILED RESULTS:

#### FDA 21 CFR 177.1520, Polyethylene

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

Specimen No.			9	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.901	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.6	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.1	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			10	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.902	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.6	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.2	1.0	11.3
<b>Conclusion</b>			PASS		

*Note:*

°C = Degree Celcius  
 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:*

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### DETAILED RESULTS:

#### FDA 21 CFR 177.1520, Polyethylene

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

Specimen No.			11	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.904	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	1.5	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	1.2	1.0	11.3
<b>Conclusion</b>			PASS		

Specimen No.			12	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Density (g/cc)	NA	NA	0.918	NA	0.85-1.00
n-Hexane extractive (% w/w)	50°C	2 hours	0.5	0.4	5.5
Xylene extractive (% w/w)	Reflux	2 hours	2.8	1.0	11.3
<b>Conclusion</b>			PASS		

*Note:*

°C = Degree Celcius  
 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) 2.1.

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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.		6		Result	RL	Specification
Test Item	Test Condition					
	Temperature	Duration				
Density (g/cc)	NA	NA	0.900	NA	0.880–0.913	
Melting point (°C)	NA	NA	153.9	NA	150-180	
n-Hexane extractive (% w/w)	Reflux	2 hours	2.7	0.1	6.4	
Xylene extractive (% w/w)	25°C	1 hour	7.8	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 177.2600, Rubber Articles Intended for Repeated Use

Analysis performed by food simulating solvents extractions to determine compliance with above referenced regulation. [Referenced Test Method: FDA 21 CFR 177.2600]

Specimen No.			14	RL	Specification
Test Item	Test Condition		Result		
	Temperature	Duration			
Distilled water extractive (mg/in <sup>2</sup> )	Reflux	First 7 hours	ND	<b>2</b>	<b>20</b>
Distilled water extractive (mg/in <sup>2</sup> )	Reflux	Succeeding 2 hours	ND	<b>0.1</b>	<b>1</b>
<b>Conclusion</b>			PASS		

*Note:*

mg/in<sup>2</sup> = Milligram 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 177.2600 (e).

From Client's information, rubber article is intended for repeated use in contact with aqueous food only, therefore n-hexane extractive is not conducted.

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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.			1	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.			2	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:

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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.			3	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.			4	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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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.			5	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  
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*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 pink plastic (AS)	Body (Pink style)
2	Translucent blue plastic (AS)	Body (Blue style)
3	Translucent green plastic (AS)	Body (Green style)
4	Translucent yellow plastic (AS)	Body (Lime style)
5	Translucent orange plastic (AS)	Body (Orange style)
6	Transparent plastic (PP-homo)	Lid/ spout (all styles)
7	Dull translucent pink plastic (PE)	Flip top (Pink style)
8	Dull translucent blue plastic (PE)	Flip top (Blue style)
9	Dull translucent green plastic (PE)	Flip top (Green style)
10	Dull translucent yellow plastic (PE)	Flip top (Lime style)
11	Dull translucent orange plastic (PE)	Flip top (Orange style)
12	Clear plastic (PE)	Straw (all styles)
13	Translucent soft plastic (Silicone)	Gasket (all styles)
14	Dull translucent soft plastic (Silicone)	Connector of straw (all styles)

*The above test(s) is/are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board (ANAB) according to certificate and scope of accreditation (Certificate # AT-1500.) Test(s) marked with '#' is/are not covered under the scope of accreditation.*

*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.*

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## TEST REPORT

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

Test Report # 16H-01622  
Date of Issue: May 05, 2016  
Pages: Page 15 of 15  
Date Received: April 08, 2016

### SAMPLE PHOTO:



-End Report-

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