





# **TEST REPORT**

Test Report # 19H-004078 Date of Report Issue: June 14, 2019

Date of Sample Received: June 4, 2019 Pages: Page 1 of 15

**CLIENT INFORMATION:** 

Company: Hit Promotional Products

Recipient: Nathan Cotter

Recipient Email: ncotter@hitpromo.net

**SAMPLE INFORMATION:** 

Description: 24oz Tritan™ Gripper Bottle

Assortment: 5 colors Purchase Order Number: 312044

SKU No.: 5807 Agent: Growth-Sonic

Factory No.: 127810 Country of Origin: China

Country of Distribution: United States Labeled Age Grade: -

Quantity Submitted: 5 pcs per style Recommended Age Grade: -

Testing Period: 06/05/2019 – 06/14/2019 Tested Age Grade: -

**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 Report #: 19H-004078 Page 2 of 15

# **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	Client's Requirement, Bisphenol A and Bisphenol S#
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets#
PASS	FDA 21 CFR 177.1520, Polypropylene Copolymers
PASS	FDA 21 CFR 177.1520, Polyethylene Homopolymers
PASS	FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked#
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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Test Report #: 19H-004078 Page 3 of 15

#### **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+11+12	13+14	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	

#### Note

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

LT = Less than

CS-HK-RE005-HITP

ND = Not detected (Reporting Limit = 20 ppm)

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

Ver.12



Test Report #: 19H-004078 Page 4 of 15

# **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+11+12	13+14	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	

#### 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.



Test Report #: 19H-004078 Page 5 of 15

# **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	7	8	9	
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	ion	PASS	PASS	PASS	PASS	

Specimen No.		10	11	12	13	
Test Item	Test Item CAS No.	Result	Result	Result	Result	Limit
rest item	CAS NO.	(ppb)	(ppb)	(ppb)	(ppb)	(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.		14				
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	Limit (ppb)
Bisphenol A (BPA)	80-05-7	ND				ND
Bisphenol S (BPS)	80-09-1	ND				ND
Conclus	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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Test Report #: 19H-004078 Page 6 of 15

# **DETAILED RESULTS:**

# FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specimen No.			1			
Test Item	Test Co	ndition	Result	Result	RL	Limit
restitem	Temp.	Duration	(ppm)	(ppm)	(ppm)	(ppm)
Distilled water extractive	120°F 24 hours		ND		10	50
		Conclusion	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.



Test Report #: 19H-004078 Page 7 of 15

# **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Copolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			7			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.901		NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	4.8		0.4	5.5
Xvlene extractive (%)   Reflux		2 hours or until total dissolved	5.9		1.0	30
		Conclusion	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.



Test Report #: 19H-004078 Page 8 of 15

# **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polyethylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			13			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.915		NA	0.85-1.00
n-Hexane extractive (%)	50°C	2 hours	1.2		0.4	5.5
Xylene extractive (%)   Retlux		2 hours or until total dissolved	5.3		1.0	11.3
		Conclusion	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.



Test Report #: 19H-004078 Page 9 of 15

# **DETAILED RESULTS:**

# FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked

Test Method: FDA 21 CFR 177.2420#

Specime	14					
Test Item	Test Co	ndition	Result	Result	RL	Limit
restitem	Temp.	Duration	(mg/in²)	(mg/in²)	(mg/in²)	(mg/in²)
Distilled water extractive	120°F 24 hours		ND		0.01	0.1
		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 177.2420 (c).



Test Report #: 19H-004078 Page 10 of 15

# **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	8				
Test Simulant	Test Co	ndition	Result	DI	Limit
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	9				
Tost Simulant	Test Condition		Pocul <del>t</del>	DI	Limit
Test Simulant	Temp.	Duration	Result	RL	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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Test Report #: 19H-004078 Page 11 of 15

# **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	10				
Tost Simulant	Test Condition		Docult.	RL	Limit
Test Simulant	Temp.	Duration	Result	KL	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	11				
Took Circulant	Test Condition		Docul+	RL	Limit
Test Simulant	Temp.	Duration	Result	KL	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				

#### 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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Test Report #: 19H-004078 Page 12 of 15

# **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				
Tost Simulant	Test Condition		Docul+	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).



Test Report #: 19H-004078 Page 13 of 15

# **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	7+8+9	10+11+12	13+14		
Test Item	Result	Result	Result	Result	Result	Limit
rest item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND		90
Conclusion	PASS	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.



Test Report #: 19H-004078 Page 14 of 15

# **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Translucent soft plastic (silicone)	Gasket (all styles)
2	Red soft plastic	Outer ring (red style)
3	Orange soft plastic	Outer ring (orange style)
4	Yellow soft plastic	Outer ring (yellow style)
5	Green soft plastic	Outer ring (green style)
6	Blue soft plastic	Outer ring (blue style)
7	Black plastic (PP-co)	Lid
8	Transparent red plastic (AS)	Spout (red style)
9	Transparent orange plastic (AS)	Spout (orange style)
10	Transparent yellow plastic (AS)	Spout (yellow style)
11	Transparent green plastic (AS)	Spout (green style)
12	Transparent blue plastic (AS)	Spout (blue style)
13	Translucent plastic (PE-homo)	Straw (all styles)
14	Transparent black plastic (polyester)	Bottle (all styles)

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Test Report #: 19H-004078 Page 15 of 15

# **SAMPLE PHOTO:**





-End Report-

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