

TEST REPORT

Test Report # 20W-000628 Date of Report Issue: March 4, 2020
Date of Sample Received: January 13, 2020 Pages: Page 1 of 15

CLIENT INFORMATION:

Company: Cap America
Address: One Cap America Drive Fredericktown, MO 63645
USA



SAMPLE INFORMATION:

Description: Blended Wool/Acrylic&Polyester cap
Product Category/Assortment: Classic Series
SKU No.: I3035 Heather/Black
Style No.: I3035
PO No.: 95060
Factory/Supplier: JW Labeled Age Grade: -
Quantity Submitted: 6 PCS Client Request Age Grade: -
Country of Distribution: Canada, United States Recommended Age Grade: -
Country of Origin: China Tested Age Grade: -
Testing Period: 01/22/2020-03/04/2020

OVERALL RESULT:

 **PASS with information**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

QIMA (HANGZHOU) TESTING CO., LTD.

Candy Ren

Kevin Lee

Candy Ren
Textile Laboratory Manager

Kevin Lee
Technical Manager



QIMA (HANGZHOU) TESTING CO., LTD. ♦ 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

♦ Email: Labtesting@qima.com ♦ Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

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	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	Model Toxics in Packaging Legislation of the Toxics in Packaging Clearinghouse (TPCH)
PASS	Appearance after Laundering
Information only	Color Fastness to Perspiration
Information only	Color Fastness to Crocking
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products



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.	3	4	5	6	7+8	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	19	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9	10	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	20W-000659	4	March 4, 2020
4	20W-000659	5	March 4, 2020
5	20W-000659	6	March 4, 2020
6	20W-000624	4	March 4, 2020
7+8	20W-000624	5+6	March 4, 2020
9	20W-000659	10	March 4, 2020



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.	3	4	5	6	7+8	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	19	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9	10	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

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

Remark:

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	20W-000659	4	March 4, 2020
4	20W-000659	5	March 4, 2020
5	20W-000659	6	March 4, 2020
6	20W-000624	4	March 4, 2020
7+8	20W-000624	5+6	March 4, 2020
9	20W-000659	10	March 4, 2020



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.	3	4	5	6	7+8	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	19	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9	10	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	90
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg=Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	20W-000659	4	March 4, 2020
4	20W-000659	5	March 4, 2020
5	20W-000659	6	March 4, 2020
6	20W-000624	4	March 4, 2020
7+8	20W-000624	5+6	March 4, 2020
9	20W-000659	10	March 4, 2020



DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		3	6	7+8	9	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

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

Remark:

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	20W-000659	4	March 4, 2020
6	20W-000624	4	March 4, 2020
7+8	20W-000624	5+6	March 4, 2020
9	20W-000659	10	March 4, 2020



DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	10	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	---
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	---
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	---
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	---
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	---
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	---	---	---
Conclusion	PASS	---	---	---	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Remark:

The specification is quoted from client's requirement.



DETAILED RESULTS:

Model Toxics in Packaging Legislation of the Toxics in Packaging Clearinghouse (TPCH)

Test Method: US EPA 3052:1996 & US EPA 6010D:2014
US EPA 3060A:1996 & US EPA 7196A: 1992
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry,
Ultraviolet-Visible Spectrophotometry

Specimen No.	1	2	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Cadmium (Cd)	ND	ND	---	---	---	
Chromium (VI) [Cr (VI)]	ND	ND	---	---	---	
Lead (Pb)	ND	ND	---	---	---	
Mercury (Hg)	ND	ND	---	---	---	
Sum	ND	ND	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Total Chromium is reported for Chromium (VI) unless specified.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	20W-000659	1	March 4, 2020
2	20W-000659	2	March 4, 2020



DETAILED RESULTS:**Appearance after Laundering**

Test Method: IHTM-TXHZ-002, observations on 3 cycles washed.

Specimen No.		11	
Assessing Items		Result	Requirement
1	Color Change	Negligible Change (Grade4.5)	Min. 4.0
2	Cross Staining	Negligible Staining (Grade4.5)	Min. 4.5
3	Fuzzing& Pilling	Negligible fuzzing& Pilling	Satisfactory
4	Seam appearance	Negligible Change	Satisfactory
5	Embroidery	Negligible change	Satisfactory
6	Appearance of Adjustment	Negligible change	Satisfactory
7	Shape	Negligible distortion	Satisfactory
Conclusion		PASS	

Remark:

- (1) Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.
(2) Washing procedure: AATCC TS-006: Hand wash at 85 °F, line dry.



DETAILED RESULTS:

Color Fastness to Perspiration

Test Method: AATCC 15-2013(E2014)

Specimen No.	11-Grey fabric	11-Mesh with binding fabric	11-Sweatband	---	---	Client's requirement
Items	Acidic Result (Grade)	Acidic Result (Grade)	Acidic Result (Grade)	Acidic Result (Grade)	Acidic Result (Grade)	
Change in shade	4.5	4.5	4.5	---	---	N/A
Staining on multi-fiber stripe						
-Acetate	4.5	4.5	4.5	---	---	N/A
-Cotton	4.5	4.5	4.5	---	---	N/A
-Nylon	4.0	4.5	4.5	---	---	N/A
-Polyester	4.5	4.5	4.5	---	---	N/A
-Acrylic	4.5	4.5	4.5	---	---	N/A
-Wool	4.5	4.5	4.5	---	---	N/A
Self staining	4.5	4.5	-	---	---	N/A
Conclusion	Information only	Information only	Information only	---	---	-

Remark: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

Color Fastness to Crocking

Test Method: AATCC 8-2016

Specimen No.	11-Grey fabric	11-Mesh with binding fabric	11-Sweatband	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4.5	4.5	4.5	---	---	N/A
Wet staining	4.5	4.5	4.5	---	---	N/A
Conclusion	Information only	Information only	Information only	---	---	-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



DETAILED RESULTS:

SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

Specimen No.	11-Grey fabric				
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		Face Length
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(1)	-	DNI	-	DNI	>3.5s
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	
(6)	-	DNI	-	DNI	
(7)	-	DNI	-	DNI	
(8)	-	DNI	-	DNI	
(9)	-	DNI	-	DNI	
(10)	-	DNI	-	DNI	
Conclusion	PASS				

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; hand wash cold, line dry.

Burn Code Description:

DNI = Did not ignite;



QIMA (HANGZHOU) TESTING CO., LTD. • 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

• Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

DETAILED RESULTS:

SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

Specimen No.	11-Black mesh fabric				
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		Face Length
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(1)	-	DNI	-	DNI	>3.5s
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	
(6)	-	DNI	-	DNI	
(7)	-	DNI	-	DNI	
(8)	-	DNI	-	DNI	
(9)	-	DNI	-	DNI	
(10)	-	DNI	-	DNI	
Conclusion	PASS				

* Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; hand wash cold, line dry.

Burn Code Description:

DNI = Did not ignite;



QIMA (HANGZHOU) TESTING CO., LTD. • 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

• Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Translucent plastic	Plastic pin
2	Multi-color printed white paper	Hang tag
3	Black plastic	Brim
4	Silvery metal	Lid of top buckle
5	Silvery metal	Base of top buckle
6	Grey sponge	Filler of sweatband
7	Black plastic	Outer end band
8	Black plastic	Inner end band
9	Black printed white textile	Label
10	White textile and white plastic with glue	Front surround
11	Blended Wool/Acrylic&Polyester cap	Finished product



QIMA (HANGZHOU) TESTING CO., LTD. ♦ 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA

♦ Email: Labtesting@qima.com ♦ Tel: (86) 571 8999 7158.

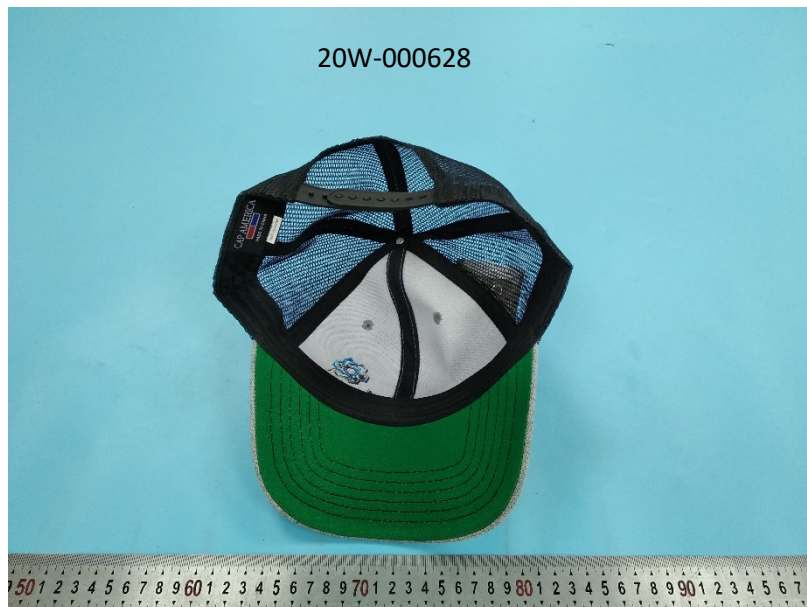
Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

This test report may not be reproduced in whole or in part, without written approval of QIMA (Hangzhou) Testing Co., Ltd.

SAMPLE PHOTO:



SAMPLE PHOTO:



-End Report-

