



TEST REPORT

Test Report # 19W-000972 Date of Report Issue: January 28, 2019
Date of Sample Received: January 16, 2019 Pages: Page 1 of 12

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Description: 100% Polyester high density visor print cap
SKU No.: i7777 Royal
Style No.: i7777
PO No.: 78677
Factory/Supplier: JW
Quantity Submitted: 6 pcs
Country of Distribution: Canada, United States
Country of Origin: China
Testing Period: 01/22/2019-01/28/2019

OVERALL RESULT:

PASS with information

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

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD

Kevin Lee
Technical Manager





TEST REPORT

Test Report # 19W-000972 Date of Report Issue: January 28, 2019
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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
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
Refer to Detailed Results	Color Fastness to Perspiration
Refer to Detailed Results	Color Fastness to Crocking





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	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	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	9	10	11	12	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	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	19W-000983	6	January 28, 2019
4	19W-000978	4	January 28, 2019
5	19W-000978	5	January 28, 2019
6	19W-000978	6	January 28, 2019
7	19W-000978	10	January 28, 2019
8	19W-000983	8	January 28, 2019
9	19W-000978	11	January 28, 2019



**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	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	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	9	10	11	12	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	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	19W-000983	6	January 28, 2019
4	19W-000978	4	January 28, 2019
5	19W-000978	5	January 28, 2019
6	19W-000978	6	January 28, 2019
7	19W-000978	10	January 28, 2019
8	19W-000983	8	January 28, 2019
9	19W-000978	11	January 28, 2019





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	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	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	9	10	11	12	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	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg=Milligrams per kilogram

LT = Less than

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	19W-000983	6	January 28, 2019
4	19W-000978	4	January 28, 2019
5	19W-000978	5	January 28, 2019
6	19W-000978	6	January 28, 2019
7	19W-000978	10	January 28, 2019
8	19W-000983	8	January 28, 2019
9	19W-000978	11	January 28, 2019



**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	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)

Remark:

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	19W-000983	6	January 28, 2019
6	19W-000978	6	January 28, 2019
7	19W-000978	10	January 28, 2019
8	19W-000983	8	January 28, 2019



**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.		9	10	11	12	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)

Remark:

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
9	19W-000978	11	January 28, 2019





DETAILED RESULTS:

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

Test Method: US EPA 3052:1996 & USEPA 6010D:2014
 US EPA 3060A:1996 & USEPA 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)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	19W-000994	1	January 28, 2019
2	19W-000994	2	January 28, 2019





DETAILED RESULTS:

Appearance after Laundering

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

Specimen No.		14	
Assessing Items		Result	Requirement
1	Color Change	Negligible Change (Grade 4.5)	Min. 4.0
2	Appearance of Print fabric	Negligible Change	Satisfactory
3	Fuzzing / Pilling	Negligible surface fuzzing & pilling	Satisfactory
4	Seam appearance	Negligible Change	Satisfactory
5	Embroidery	Negligible Change	Satisfactory
6	Velcro tape	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) Note: 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.	14		
Items	Client's requirement	Acidic Result (Grade)	Conclusion
Change in shade	N/A	4.5	Information only
Staining on multi-fiber stripe			
-Acetate	N/A	4.5	
-Cotton	N/A	4.5	
-Nylon	N/A	4.5	
-Polyester	N/A	4.5	
-Acrylic	N/A	4.5	
-Wool	N/A	4.5	

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.	14		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4.0	Information only
Wet staining	N/A	4.5	

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





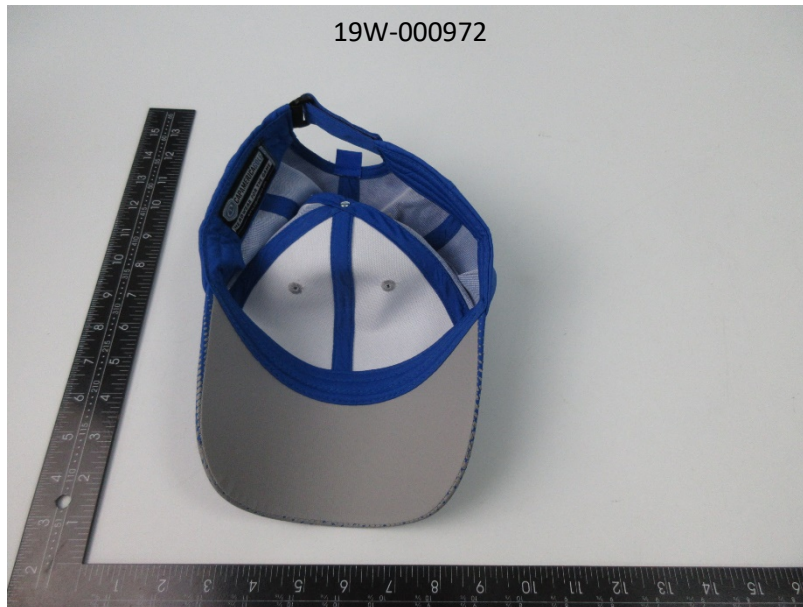
SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White plastic	Sling
2	Multi-color printed white paper	Hang tag
3	Black printed white textile	Label
4	Silvery metal	Top button
5	Silvery metal	Top button base
6	Black plastic	Brim
7	Transparent soft plastic	Inner thread
8	White sponge	Sweatband
9	White plastic	Front surround
10	Black plastic	Square buckle
11	Black soft plastic	Elastic
12	Blue plastic	Velcro hook
13	Black plastic	Sling
14	Blue/grey hat	Finished product





SAMPLE PHOTO:



-End Report-

