



TEST REPORT

Test Report # 19W-000958 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% Acrylic Yarn and 83% Nylon/17% Spandex Lycra Knit
SKU No.: EK9 Black
Style No.: EK9
PO No.: 78677
Factory/Supplier: MO
Quantity Submitted: 6 pcs
Country of Distribution: United States, Canada
Country of Origin: United States
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-000958 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
PASS	Flammability Test of Clothing Textiles





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	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	100
Conclusion	PASS	---	---	---	---	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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





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	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	100
Conclusion	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.





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	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	PASS	---	---	---	---	

Note:

mg/kg=Milligrams per kilogram)

LT = Less than

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





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	---	---	---	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	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	---	---	1000
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 & 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.		4	
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 surface fuzzing & pilling	Satisfactory
4	Seam appearance	Negligible Change	Satisfactory
5	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 105 °F, line dry.





DETAILED RESULTS:

Color Fastness to Perspiration

Test Method: AATCC 15-2013(E2014)

Specimen No.	4		
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	4.0	
-Nylon	N/A	4.0	
-Polyester	N/A	4.5	
-Acrylic	N/A	4.5	
-Wool	N/A	4.5	
Cross staining	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.	4		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4.5	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.





DETAILED RESULTS:

Flammability Test of Clothing Textiles

Test Method: 16 CFR Part 1610

Specimen No.	4	
Items	Result	Client's requirement
Specific exemptions	After testing, fabric weight of sample is >2.6 oz / sq. yd. Thus the sample is exempt from flammability testing in accordance with 16 CFR 1610.1(d)(1): Plain surface fabric with fabric weight \geq 2.6 oz/sq. yd.	Class I
Conclusion	PASS	





SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White plastic	Sling
2	Multi-color printed white paper	Hang tag
3	Multi-color printed white textile	Label
4	Multi-color hat	Finished product





SAMPLE PHOTO:



-End Report-

