

TEST REPORT

Test Report # 22W-014776 Date of Report Issue: December 5, 2022
Date of Sample Received: September 15, 2022 Pages: Page 1 of 24

CLIENT INFORMATION:

Company: Spector & Co.
Address: testing@spectorandco.com



SAMPLE INFORMATION:

Description: Call of the Wild Cooler Tote
Assortment: BLK
PO No.: PO 72215
Item No./Name: BG504
Item Class: ASHBURY BAG
Factory/Supplier: USW031
Country of Origin: China
Country of Distribution: Canada, United States
Testing Period: 09/22/2022-10/12/2022, 11/21/2022-12/05/2022

OVERALL RESULT:

PASS with information

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

QIMA (HANGZHOU) TESTING CO., LTD.

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Client's requirement, Bisphenol A content
PASS	FDA 21 CFR 177-189, Residual Vinyl Chloride Monomer
PASS	Color Fastness to Water
PASS	Color Fastness to Crocking
PASS	Color Fastness to Light
Information only	Dimensions
Information only	Article Weight
PASS	Defects
Information only	Fabric Weight Per Unit Area
PASS	Tensile Strength
PASS	Tearing Strength
PASS	Seam Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Zipper Strength
PASS	Zipper Operability
PASS	Water Repellency -Spray Test
PASS	Water Resistance -Rain Test
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Information only	Fiber Content
PASS	19 CFR 134.11, Country of Origin
PASS	Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin
PASS	Quebec R.S.Q., c.C-11-Charter of French Language-Labeling Review
Information only	R.S.C, 1985 c. T-10 / C.R.C. c. 1551-Textile Labeling Act / Textile Labelling and Advertising Regulations-Labeling Review (Fiber Content)
PASS	Shear Strength of Hook-and-Loop Fasteners ^φ
PASS	Peel Strength of Hook-and-Loop Fasteners ^φ
PASS	Client's Requirement for Static Load Test
Information only	Client-Performance Requirements-Capacity Test of Bags
Information only	Client-Performance Requirements-Cold Retention Test
Information only	Client-Performance Requirements-Fit for Use Test



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DETAILED RESULTS:

Client's requirement, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.	1	---	---	---	Client's limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	---	---	---
Conclusion	PASS	---	---	---	Not Detected

Note:

mg/kg=milligram per kilogram

ND=Not Detected (Reporting limit = 1.0mg/kg)



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DETAILED RESULTS:

FDA 21 CFR 177-189, Residual Vinyl Chloride Monomer

Test Method: In house Method
 Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Specimen No.	1	---	---	---		
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Vinyl chloride	75-01-4	ND	---	---	---	0.01
Conclusion		PASS	---	---	---	

Note:
 ppb (Parts per billion) = 0.001 mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 0.01 mg/kg)



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DETAILED RESULTS:

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	2-Shell	2-Tape	2-Lining	---	---	Client's requirement
Items	Result (Grade)					
Change in shade	4.5	4.5	4.5	---	---	-
Staining on multi-fiber stripe						
-Acetate	4.5	4.5	4.5	---	---	Min. 3.5
-Cotton	4.5	4.5	4.5	---	---	Min. 3.5
-Nylon	4.5	4.5	4.5	---	---	Min. 3.5
-Polyester	4.5	4.5	4.5	---	---	Min. 3.5
-Acrylic	4.5	4.5	4.5	---	---	Min. 3.5
-Wool	4.5	4.5	4.5	---	---	Min. 3.5
Conclusion	PASS	PASS	PASS	---	---	-

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.	2-Shell	2-Tape	2-Lining	---	---	Client's requirement
Items	Result (Grade)					
Dry staining	4.5	4.0	4.5	---	---	Min. 4.0
Wet staining	4.5	4.5	4.5	---	---	Min. 2.5
Conclusion	PASS	PASS	PASS	---	---	-

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:

Color Fastness to Light

Test Method: AATCC 16.3-2014; Option 3; Xenon Arc Lamp.

Specimen No.	2-Shell	2-Tape	---	---	---	Client's requirement
Items	Result (Grade)					
After 20 AFU Change in shade	4.5	4.5	---	---	---	Min. 4.0
Conclusion	PASS	PASS	---	---	---	-

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

Dimensions

Test Method: IHTM, Standard Measure

Specimen No.	2	---	---	---	---	Requirement
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	
Length	36	---	---	---	---	N/A
Width	19	---	---	---	---	N/A
Height	32	---	---	---	---	N/A
Conclusion	Information only	---	---	---	---	

Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	2		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	818	Information only



DETAILED RESULTS:

Defects

Test Method: ASTM D3990 – 12(2016); Visual Examination

Specimen No.	2	Requirement
Item	Result	
Observation	No major defect	Satisfactory
Conclusion	PASS	-

Fabric Weight Per Unit Area

Test Method: ASTM D3776/D3776M-20, Option C

Specimen No.	2-Shell	2-Lining	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m ²)	549	390	---	---	---	N/A
(oz/yd ²)	16.2	11.5	---	---	---	N/A
Conclusion	Information only	Information only	---	---	---	-

Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	2-Shell	Client's requirement (lbs)
Items	Result (lbf)	
Length	206.3	Min. 25
Width	250.8	Min. 25
Conclusion	PASS	-

Remark: All the length and width specimens were jaw broken.



DETAILED RESULTS:

Tearing Strength

Test Method: ASTM D1424-21; Elmendorf

Specimen No.	2-Shell	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Length yarns torn (lbf)	>14.1	---	---	---	---	Min. 1.5
Width yarns torn (lbf)	>14.1	---	---	---	---	Min. 1.5
Conclusion	PASS	---	---	---	---	-

Note:

- (1) Length test - test in which the length yarns are torn.
Width test - test in which the width yarns are torn.
- (2) The maximum capacity of the tester is 14.1lbf.

Seam Strength

Test Method: With reference to ASTM D 1683/D1683M-17(2018)

Specimen No.	2-Shell		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	90.4 (S.T.B.)	PASS

Specimen No.	2-Lining		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	94.2 (F.R.)	PASS
Bottom seam (lbf)	Min. 25	85.0 (F.R.)	

Remarks: S.T.B. = Sewing Thread Break
F.R.= Fabric Rupture



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DETAILED RESULTS:

Abrasion Resistance

Test Method: ASTM D4966-12(2016), Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No.	2-Shell	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
End point (rubs)	>7500	---	---	---	---	7500
Conclusion	PASS	---	---	---	---	-

Pilling Resistance

Test Method: ASTM D3512/D3512M-16; After 30 min. tumbling in Random tumble Pilling Tester

Specimen No.	2-Shell	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
As received Rating	4.5	---	---	---	---	Min. 3.5
Conclusion	PASS	---	---	---	---	-

Remarks: Pilling Rating

- 5 No pilling/ No fuzzing
- 4 Slight pilling/ Slight fuzzing
- 3 Moderate pilling/ Moderate fuzzing
- 2 Severe pilling/ Severe fuzzing
- 1 Very severe pilling/ Very severe fuzzing



DETAILED RESULTS:

Zipper Strength

Test Method: ASTM D2061-07(2021); type: M

Specimen No.	3	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	269.5(Tape separate)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	88.5(Slider break)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (In. lbf) Counter-Clockwise (In. lbf)	>7.8* >7.8*	Min.4
Conclusion	PASS	

Remark: *: The maximum capacity of the tester is 7.8 In. lbf

Zipper Operability

Test Method: ASTM D2062-03(2021)

Specimen No.	3	
Items	Result	Client's requirement
Chain opening (lbf)	0.8	Max. 2
Chain closing (lbf)	1.0	Max. 2
Conclusion	PASS	



DETAILED RESULTS:

Water Repellency -Spray Test

Test Method: AATCC TM22-2017e; Spray Test – Tested under controlled condition, water temperature: 20±1°C

Specimen No.	2-Shell			Client's requirement
Items	Result			
	Specimen 1#	Specimen 2#	Specimen 3#	
As received Rating	90	90	90	Min.90
Conclusion	PASS			

- Remarks: Spray Rating
- 100 No sticking or wetting of specimen face
 - 90 Slight random sticking or wetting of specimen face
 - 80 Wetting of specimen face at spray points
 - 70 Partial wetting of the specimen face beyond the spray points
 - 50 Complete wetting of the entire specimen face beyond the spray points
 - 0 Complete wetting of the entire face of the specimen

Water Resistance -Rain Test

Test Method: AATCC TM35-2018e2; Rain Test-600 mm head Pressure; 2-min impact

Specimen No.	2-Shell			U.S.Customs' Requirement
Items	Result			
	Specimen 1#	Specimen 2#	Specimen 3#	
As received Weight of blotter gained (g)	0	0	0	Max 1.0
Conclusion	PASS			



DETAILED RESULTS:

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

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

Specimen No.	2-Shell				Client's requirement	
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>			Face Length
Items	Result					
	<u>As Received</u>		<u>After 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					

* Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Spot clean.

Burn Code Description:

DNI = Did not ignite;



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DETAILED RESULTS:

Fiber Content

Test Method: AATCC 20-2020

Specimen No.	2-Shell base		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

19 CFR 134.11, Country of Origin

Test Parameters	Observation	Conclusion
Country of Origin	Present on product and is visible to the consumer at the point of sale.	PASS



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DETAILED RESULTS:

Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin

Test Parameters	Observation
Goods imported into Canada shall be marked, stamped, branded or labelled in legible English or French words, in a conspicuous place that shall not be covered or obscured by any subsequent attachments or arrangements, so as to indicate the country of origin. It shall be as nearly indelible and permanent as the nature of the goods will permit.	Country of Origin Markings
Conclusion	PASS

Quebec R.S.Q., c.C-11-Charter of French Language-Labeling Review

Test Parameters	Observation
Every inscription on a product, on its container or on its wrapping, or on a document or object supplied with it, including the directions for use and the warranty certificates, must be drafted in French, The French inscription may be accompanied with a translation or translations, but no inscription in another language may be given greater prominence than that in French.	Comply with the requirement
Conclusion	PASS



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DETAILED RESULTS:

R.S.C, 1985 c. T-10 C.R.C. c. 1551-Textile Labeling Act Textile Labelling and Advertising Regulations-Labeling Review (Fiber Content)

Test Method: R.S.C., 1985, c. T-10& C.R.C., c. 1551, Visual Check.

Test Parameters	Observation	Result
1.Fibre Content		
Every fibre which is present in an amount of 5 percent or more by mass must be declared on the label using its generic name. Exceptions apply where the article contains unknown or undetermined fibres. Additional requirements apply when reclaimed fibres are present. And if the textile article contains trimming or findings other labelling requirements or alternatives exist.	Polyvinyl chloride is not textile material, The lab was not verified. The actual test result: Shell base: 100%polyester	Information only
Every fibre which is present in an amount of less than 5 percent by mass must be declared on the label using its generic name or the term, "other fibre". Special exceptions to this requirement exist for elastic yarns, reinforcement yarns and ornamentation.	Comply with the requirement	PASS
In conjunction with the generic name, the amount of each fibre must be declared on the label as a percentage of the total fibre mass of the article or its components	Comply with the requirement	PASS
If the textile article consists of parts or sections differing in fibre content, each part or section must be declared on the label in a sectional disclosure. Sectional disclosures are also required for paddings or fillings, such as those used in pillows for beds or those added for warmth, linings and interlinings, as well as for carpets, fabric supported foams and pile, coated or impregnated fabrics.	Comply with the requirement	PASS
2. Bilingual Requirement		
All fibre content information on the label must be bilingual, except in areas where only one official language is used in consumer transactions	Comply with the requirement	PASS
3. Dealer Identity		
The dealer identity (business name and address) must be displayed on the label. Alternatively, a dealer in Canada may use a CA identification number.	Comply with the requirement	PASS
4. Country Of Origin		
If the article or any fabric or fibre there in is imported, Country of origin must be displayed on the label.	Comply with the requirement	PASS
5. Form and Application Of Labels		



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Test Parameters	Observation	Result
The form of a label must ensure that the information contained on the label is factual, legible and accessible to the prospective consumer at the time of purchase.	Comply with the requirement	PASS
Depending on the type of article being labelled, either a permanent or non-permanent label must be applied to a consumer textile article. Special requirements exist for prepackaged articles and labelling alternatives exist for home-crafted articles. Exceptions to this requirement exist for custom-made articles, such as a tailored suit or a carpet cut to the customer's specification.	Comply with the requirement	PASS
Conclusion	Information only	

Remark: N/A = Not Applicable



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DETAILED RESULTS:

Shear Strength of Hook-and-Loop Fasteners ϕ

Test Method: ASTM D5169, 300mm / Min

Specimen No.	4	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Original (KPa)	155.2	---	---	---	---	Min. 65
After 5000 Revolution (KPa)	108.2	---	---	---	---	Min. 65
Conclusion	PASS	---	---	---	---	-

Peel Strength of Hook-and-Loop Fasteners ϕ

Test Method: ASTM D5170, 300mm / Min

Specimen No.	4	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Original (N/mm)	0.17	---	---	---	---	Min. 0.08
After 5000 Revolution (N/mm)	0.08	---	---	---	---	Min. 0.08
Conclusion	PASS	---	---	---	---	-



DETAILED RESULTS:

Client's Requirement for Static Load Test

Test Item	Test Method	Requirement	Conclusion
Static Load Test	<ol style="list-style-type: none">1. Visual check the normal function of the sample under test as received.2. Hanging the bag in a proper place.3. Place the test load on the bag with 50lb for 2 hours.4. Observe and record any failure, structural breakage, deformation or any other unusual change from the original state of sample.	No failure, No structural breakage, No damage	PASS



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DETAILED RESULTS:

Client-Performance Requirements-Capacity Test of Bags

Test Item	Test Method	Conclusion
Capacity test	1.Weigh 1 liter of standard plastic particles and record them as g. 2.Fill the bag with plastic particles using standard methods, then take out the plastic particles and weigh the plastic particles and record them as G. 3.Capacity=G/g	Information Only: Please refer below for detail result



Main pocket: 16.84L



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DETAILED RESULTS:

Client-Performance Requirements-Cold Retention Test

Test	Observation	Conclusion
<p>Cold Retention Test</p> <p>Determine the time required temperature change from zero degrees Celsius to room temperature. Fill half of capacity of cooler bag with ice cube and water, close to Zero temperature. Insert the thermocouple into the mid of water, close the bag and record the time from zero temperature to room temperature</p>	57hrs1min	Information Only



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DETAILED RESULTS:

Client-Performance Requirements-Fit for Use Test

Test	Observation	Conclusion
Put in 12 oz (355ml) of beverage as required into the backpack and until the zipper is just fully closed.	Maximum capacity: 30 bottles of 12 oz beverage	Information Only
 <p data-bbox="544 1104 1050 1135">Main pocket: 30 bottles of 12 oz beverage</p>		



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White soft plastic	Lining
2	Call of the wild cooler tote	Finished product
3	Black zipper	Raw material
4	Black hook and loop fastener	Raw material



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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.

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-End Report-

