

TEST REPORT

Test Report # 20W-018386 Date of Report Issue: January 15, 2021

Date of Sample Received: December 17, 2020 Pages: Page 1 of 26

CLIENT INFORMATION:

Company: Spector & Co.

Address: -

SAMPLE INFORMATION:

Description: CALL OF THE WILD WATER RESISTANT ACC. POUCH

Assortment: -

Model/style No.:

PO No.: PO# 31713&71530

SKU No.:

Item No./Item Name: BG707
Factory/Supplier: USW031
Country of Origin: China

Country of Distribution: Canada, United States
Testing Period: 01/05/2021-01/15/2021

OVERALL RESULT:

P PASS with information

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

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RC-CSH7-R063

Chemical Laboratory Manager

Eric Liu

Lab Operation Director



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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	California Proposition 65, Total Cadmium in Paints and Surface Coatings
PASS	California Proposition 65, Total Cadmium in Substrate Materials
Information only	Client's requirement, Total Nickel content
Information only	Client's Requirement, Total Tungsten content
PASS	CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	Client's Requirement, Phthalates content
PASS	Color Fastness to Crocking
PASS	Color Fastness to Water
PASS	Color Fastness to Light
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Information only	Article Weight
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
Information only	Dimensions
PASS	Defects
PASS	Workmanship

OU) 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.



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CONCLUSION	TEST(S) CONDUCTED
Information only	Client's Requirement - Capacity Test of Bags



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DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2					Limit
Tost Itom	Result	Result	Result	Result	Result	(mg/kg)
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:



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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+8	3	4	5+6	7	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	27	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)

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

Remark:



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DETAILED RESULTS:

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2					Total
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					10
Conclusion	PASS					

Note:

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit: Pb=15 mg/kg; Hg = 10 mg/kg)



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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+8	3	4	5+6	7	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	27	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)

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



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DETAILED RESULTS:

California Proposition 65, Total Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2					Limit
Test Item	Result	Result	Result	Result	Result	(mg/kg)
rest item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
Total Cadmium (Cd)	ND					75
Conclusion	PASS					

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:



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DETAILED RESULTS:

California Proposition 65, Total Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+8	3	4	5+6	7	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	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:



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DETAILED RESULTS:

Client's requirement, Total Nickel content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3+4					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Nickel(Ni)	86					
Conclusion	Information only					

Note:

mg/kg = Milligrams per kilogram

ND = Not detected (report limit = 30mg/kg)

A0



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DETAILED RESULTS:

Client's Requirement, Total Tungsten content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3+4					Limit
Test Item	Result	Result	Result	Result	Result	(mg/kg)
rest item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(1116/116)
Total Tungsten (W)	10231					
Conclusion	Information					
Conclusion	only					

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

A0



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DETAILED RESULTS:

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	0.	1+8	2	5+6	7	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

mg/kg = Milligrams per kilogram

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.



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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.		1+8	2	5+6	7	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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	1	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:



Test Report # 20W-018386 Pages: Page 14 of 26

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	1+8	2	5+6	7	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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 (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND	ND	1000
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	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:



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DETAILED RESULTS:

Color Fastness to Crocking

Test Method: AATCC 8-2016

Specimen No.	9	Client's
Items	Result (Grade)	requirement (Grade)
Dry staining	4.5	Min. 4.0
Wet staining	4.5	Min. 2.5
Conclusion	PASS	-

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

Color Fastness to Water

RC-CSHZ-R063

Test Method: AATCC 107-2013

Specimen No.	9	Client's
Items	Result (Grade)	requirement (Grade)
Change in shade	4.5	-
Staining on multi-fiber stripe		
-Acetate	4.5	Min. 3.5
-Cotton	4.5	Min. 3.5
-Nylon	4.5	Min. 3.5
-Polyester	4.5	Min. 3.5
-Acrylic	4.5	Min. 3.5
-Wool	4.5	Min. 3.5
Conclusion	PASS	-

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



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DETAILED RESULTS:

Color Fastness to Light

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

Specimen No.	9	Client's
Items	Result (Grade)	requirement (Grade)
After 20 AFU Change in shade	4.5	Min. 4.0
Conclusion	PASS	-

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

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DETAILED RESULTS:

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

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

Specimen No.	10				
Preliminary Tests	Fabric Smooth Test Specimen Direction		Face Length		
		Re	esult		
Items	As Reco	eived	After Dry-cleaning and Laundering*		Client's requirement
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	DNI	-	DNI	
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	. 2.5-
(6)	-	DNI	-	DNI	>3.5s
(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; Machine wash at 50° C and tumble dry on the normal setting.

Burn Code Description:

DNI = Did not ignite;



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DETAILED RESULTS:

Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.		9	
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	29.4	Information only

Fabric Weight Per Unit Area

Test Method: ASTM D3776/D3776M-09a(R2013), Option C;

Specimen No.	10	Client's
Items	Result	requirement
(g/m²)	170	N/A
(oz/yd²)	5.01	N/A
Conclusion	Information only	-

Tensile Strength

RC-CSHZ-R063

Test Method: ASTM D5034-09(Reapproved 2017); Instron CRE – 1" Grab

Specimen No.	10	Client's
Items	Result (lbf)	requirement (Ibf)
Warp	179.8	Min. 25
Weft	212.6	Min. 25
Conclusion	PASS	-

Remark: All the warp, weft specimens were jaw broken.



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DETAILED RESULTS:

Tearing Strength

Test Method: ASTM D1424-09(R2013) Elmendorf

Specimen No.	10	Client's
Items	Result (lbf)	requirement (lbf)
Warp	3.1	Min. 1.5
Weft	6.4	Min. 1.5
Conclusion	PASS	-

Note: Warp test – test in which the Warp yarns are torn. Weft test – test in which the Weft yarns are torn.

Seam Strength

RC-CSHZ-R063

Test Method: with reference to ASTM D 1683/D1683M-17(2018); Instron CRE

Specimen No.	9	Client's
Items	Result (lbf)	requirement (lbf)
Side seam	84.2(S.T.B.)	Min. 25
Bottom seam	64.2(S.T.B.)	Min. 25
Conclusion	PASS	-

Remarks: S.T.B. = Sewing Thread Breaks.



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DETAILED RESULTS:

Abrasion Resistance

Test Method: ASTM D4966-12^{ε1}, Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No. Items	10 Result (rubs)	Client's requirement (rubs)
End point	>10000	10000
Conclusion	PASS	-

Pilling Resistance

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

Specimen No.	10	Client's
Items	Result	requirement
As received Rating	4.5	Min. 3.5
Conclusion	PASS	-

Remarks: Pilling Rating

5 No pilling

4 Slight pilling

3 Moderate pilling

2 Severe pilling

1 Very severe pilling



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DETAILED RESULTS:

Zipper Strength

Test Method: ASTM D2061-07(R2013); type: M

Specimen No.	9	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	239.1(Elements separate)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	60.8(Puller pull out)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	7.8 7.8	Min.4
Conclusion	PASS	

Zipper Operability

RC-CSHZ-R063

Test Method: ASTM D2062-03(R2014)

Specimen No.	9	
Items	Result	Client's requirement
Chain opening (lbf)	0.8	Max. 2
Chain closing (lbf)	0.9	Max. 2
Conclusion	PASS	

Remark: It is noted that a specific sampling plan is laid down per ASTM D2061-07(R2013) & ASTM D2062-03(R2014). The above results for Zipper Strength & Zipper Operability are drawn on the 8 of tested specimens, based on the request from the applicant.



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DETAILED RESULTS:

Water Repellency-Spray Test

Test Method: AATCC 22-2017; Spray Test – Tested under controlled condition, water temperature: 27±1°C

Specimen No.	10				
Itoms	Result			Client's requirement	
Items	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

O Complete wetting of the entire face of the specimen

Water Resistance - Rain Test

RC-CSHZ-R063

Test Method: AATCC 35-2013; Rain Test-600 mm head Pressure; 2-min impact

Specimen No.		10			
ltems	Result			Client's requirement	
items	Specimen 1#	Specimen 2#	Specimen 3#	Average	
As received Weight of blotter gained (g)	0.0	0.0	0.0	0.0	Max 1.0g
Conclusion	PASS		-		



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DETAILED RESULTS:

Dimensions

Test Method: IHTM, Standard Measure;

Specimen No.	9	
Items	Result (cm)	Client's requirement
Length	23.6	NI/A
Width	17.6	N/A
Conclusion	Information only	-

Defects

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

Specimen No.	9	Paguirament	
Item	Result	Requirement	
Observation	No major defect	Satisfactory	
Conclusion	PASS		

Workmanship

RC-CSHZ-R063

Test Method: IHTM; Visual Examination

Specimen No.	9	•	
Item	Result	Requirement	
Observation	No major poor workmanship	Satisfactory	
Conclusion	PASS	-	



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DETAILED RESULTS:

Client's Requirement-Capacity Test of Bags

Test Item	Test Method	Observation	Conclusion
Capacity test	 Weigh 1 liter of standard plastic particles and record them as g. Fill up the bag with plastic particles using standard methods, then take out the plastic particles and weigh the plastic particles and record them as G. Capacity=G/g 	Measured: The capacity of the bag is 1.46 L.	Information Only



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Transparent coated black textile	Main body
2	Black coating	Zipper head
3	Silvery metal	Zipper slider
4	Silvery metal	Zipper puller
5	Black plastic	Zipper puller
6	Black plastic	Zipper teeth
7	Dark grey soft plastic	Elastic
8	Black coated black textile	Zipper cloth
9	Call of the wild water resistant acc. pouch	Finished product
10	Black fabric	Raw material



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SAMPLE PHOTO:

RC-CSHZ-R063





-End Report-