

## TEST REPORT

Test Report # 22W-013230 Date of Report Issue: October 28, 2022  
Date of Sample Received: August 17, 2022 Pages: Page 1 of 42

### CLIENT INFORMATION:

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



### SAMPLE INFORMATION:

Description: Workation Renew Backpack  
Assortment: GRY  
PO No.: PO 72315 & PO 31783  
Item No./Name: BGR125  
Item Class: ASHBURY BAG  
Factory/Supplier: USB059  
Country of Origin: China  
Country of Distribution: Canada, United States  
Testing Period: 08/22/2022-09/02/2022, 09/26/2022-10/11/2022, 10/26/2022-10/28/2022

### 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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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	US States Requirement, Per-and Polyfluoroalkyl Substances (PFAS) Content (Total Fluorine Method)
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 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	Bursting Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Zipper Strength
PASS	Zipper Operability
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Information only	Fiber Content



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CONCLUSION	TEST(S) CONDUCTED
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	Client's Requirement for Static Load Test
Information only	Client-Performance Requirements-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.	4	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/kg =Milligrams per kilogram

LT = Less than

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

*Remark:*

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
4	22W-013229	4	October 28, 2022



**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	2	3+6+9	5	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	29	ND	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	10	11	12	13	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	<b>100</b>
<b>Conclusion</b>	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:*

The specification is quoted from client's requirement.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	22W-013229	1	October 28, 2022
2	22W-013229	2	October 28, 2022
3+6+9	22W-013229	3+6+9	October 28, 2022
5	22W-013229	5	October 28, 2022
7	22W-013229	7	October 28, 2022
8	22W-013229	8	October 28, 2022
10	22W-013229	10	October 28, 2022
11	22W-013229	11	October 28, 2022
12	22W-013229	12	October 28, 2022
13	22W-013229	13	October 28, 2022



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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.	4	---	---	---	---	Total Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
Total Mercury (Hg)	ND	---	---	---	---	<b>10</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/kg=Milligrams per kilogram

LT = Less than

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

Data Consolidation Reference:

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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	2	3+6+9	4	5	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	29	ND	ND	<b>90</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7	8	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	<b>90</b>
<b>Conclusion</b>	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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	22W-013229	1	October 28, 2022
2	22W-013229	2	October 28, 2022
3+6+9	22W-013229	3+6+9	October 28, 2022
4	22W-013229	4	October 28, 2022
5	22W-013229	5	October 28, 2022
7	22W-013229	7	October 28, 2022
8	22W-013229	8	October 28, 2022
10	22W-013229	10	October 28, 2022
11	22W-013229	11	October 28, 2022
12	22W-013229	12	October 28, 2022



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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.	13	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>90</b>
<b>Conclusion</b>	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.	
13	22W-013229	13	October 28, 2022



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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.	4	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	<b>75</b>
<b>Conclusion</b>	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.	
4	22W-013229	4	October 28, 2022



**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	2	3+6+9	5	7	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	<b>75</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	10	11	12	13	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	<b>75</b>
<b>Conclusion</b>	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:*

The specification is quoted from client's requirement.

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	Report No.	Specimen No.	
1	22W-013229	1	October 28, 2022
2	22W-013229	2	October 28, 2022
3+6+9	22W-013229	3+6+9	October 28, 2022
5	22W-013229	5	October 28, 2022
7	22W-013229	7	October 28, 2022
8	22W-013229	8	October 28, 2022
10	22W-013229	10	October 28, 2022
11	22W-013229	11	October 28, 2022
12	22W-013229	12	October 28, 2022
13	22W-013229	13	October 28, 2022



**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.	5+7	10+11+12	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Nickel(Ni)	ND	12028	---	---	---	
<b>Conclusion</b>	Information only	Information only	---	---	---	

*Note:*

mg/kg = Milligrams per kilogram

ND = Not detected (report limit = 30 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.	
5+7	22W-013229	5+7	October 28, 2022
10+11+12	22W-013229	10+11+12	October 28, 2022



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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.	5+7	10+11+12	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Tungsten (W)	ND	96	---	---	---	
<b>Conclusion</b>	Information only	Information only	---	---	---	

*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.	
5+7	22W-013229	5+7	October 28, 2022
10+11+12	22W-013229	10+11+12	October 28, 2022



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**DETAILED RESULTS:**

**US States Requirement, Per-and Polyfluoroalkyl Substances (PFAS) Content (Total Fluorine Method)**

Test Method: With reference to EN 14582:2016

Analytical Method: Ion Chromatograph

Specimen No.	2	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Per- and polyfluoroalkyl substances (PFAS) (as total fluorine)	ND	---	---	---	<b>100</b>
<b>Conclusion</b>	PASS	---	---	---	

*Note:*

mg/kg (Milligrams per kilogram) = ppm (Parts per million)

LT = Less than

ND = Not Detected (Reporting Limit = 50 mg/kg)

Remarks:

The limit is referenced from California AB 652 (2021-2022) and California AB 1200 (2021-2022)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
2	22W-013229	2	October 28, 2022



**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 No.		1	2	3+6+9	4	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
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
<b>Conclusion</b>		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.

**Data Consolidation Reference:**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	22W-013229	1	October 28, 2022
2	22W-013229	2	October 28, 2022
3+6+9	22W-013229	3+6+9	October 28, 2022
4	22W-013229	4	October 28, 2022



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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 No.	8	13	---	---		
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	<b>1000</b>
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	<b>1000</b>
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	<b>1000</b>
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	<b>1000</b>
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	<b>1000</b>
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	<b>1000</b>
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	<b>1000</b>
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	---	---	<b>1000</b>
<b>Conclusion</b>		PASS	PASS	---	---	

*Note:*  
 mg/kg = Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 150 mg/kg)

**Data Consolidation Reference:**

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
8	22W-013229	8	October 28, 2022
13	22W-013229	13	October 28, 2022



**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	2	3+6+9	4	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

**Note:**  
 mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)  
 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:**

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	Report No.	Specimen No.	
1	22W-013229	1	October 28, 2022
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3+6+9	22W-013229	3+6+9	October 28, 2022
4	22W-013229	4	October 28, 2022



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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.		8	13	---	---	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	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	1000
<b>Conclusion</b>		PASS	PASS	---	---	

**Note:**

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 150 mg/kg)

**Remark:**

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**Data Consolidation Reference:**

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**DETAILED RESULTS:**

**Client's Requirement, Phthalates content**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2	3+6+9	4	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 (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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	



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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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**Data Consolidation Reference:**

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4	22W-013229	4	October 28, 2022



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**DETAILED RESULTS:**

**Client's Requirement, Phthalates content**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		8	13	---	---	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	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	---	---	1000
Diethyl phthalate (DEP)	84-66-2	ND	ND	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	---	---	1000
<b>Conclusion</b>		PASS	PASS	---	---	



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LT = Less than

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

**Remark:**

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**DETAILED RESULTS:**

**Color Fastness to Water**

Test Method: AATCC 107-2013

Specimen No.	16	17	18	23	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	4.5	4.5	4.5	---	-
Staining on multi-fiber stripe						
-Acetate	4.5	4.5	4.5	4.5	---	Min. 3.5
-Cotton	4.5	4.5	4.5	4.5	---	Min. 3.5
-Nylon	4.0	4.5	4.5	4.5	---	Min. 3.5
-Polyester	4.5	4.5	4.5	4.5	---	Min. 3.5
-Acrylic	4.5	4.5	4.5	4.5	---	Min. 3.5
-Wool	4.5	4.5	4.5	4.5	---	Min. 3.5
Conclusion	PASS	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.	16	17	18	23	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4.0	4.5	4.5	4.5	---	Min. 4.0
Wet staining	4.5	4.5	4.5	4.5	---	Min. 2.5
Conclusion	PASS	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 16.3-2020; Option 3; Xenon Arc Lamp.

Specimen No.	15	16	17	18	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
After 20 AFU Change in shade	4.5	4.5	4.5	4.5	---	Min. 4.0
Conclusion	PASS	PASS	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.	14	---	---	---	---	Requirement
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	
Length	43	---	---	---	---	N/A
Width	31	---	---	---	---	N/A
Height	16	---	---	---	---	N/A
Conclusion	Information only	---	---	---	---	

**Article Weight**

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	14		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	790	Information only



**DETAILED RESULTS:**

**Defects**

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

Specimen No.	14	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.	17	18	19	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m <sup>2</sup> )	75.8	419	82.5	---	---	N/A
(oz/yd <sup>2</sup> )	2.24	12.4	2.43	---	---	N/A
Conclusion	Information only	Information only	Information only	---	---	-



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**DETAILED RESULTS:**

**Tensile Strength**

Test Method: ASTM D5034-21

Specimen No.	17	Client's requirement (lbs)
Items	Result (lbf)	
Warp	124.0	Min. 25
Weft	108.6	Min. 25
Conclusion	PASS	-

Specimen No.	18	Client's requirement (lbs)
Items	Result (lbf)	
Warp	321.2	Min. 25
Weft	246.3	Min. 25
Conclusion	PASS	-

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



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**DETAILED RESULTS:**

**Tearing Strength**

Test Method: ASTM D1424-21; Elmendorf

Specimen No.	17	18	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Warp yarns torn (lbf)	3.7	10.7	---	---	---	Min. 1.5
Weft yarns torn (lbf)	3.5	10.6	---	---	---	Min. 1.5
Conclusion	PASS	PASS	---	---	---	-

Note: Warp test - test in which the warp yarns are torn.  
Weft test - test in which the weft yarns are torn.

**Seam Strength**

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

Specimen No.	14-Shell with lining		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	194.7 (F.T.S.)	PASS
Bottom seam (lbf)	Min. 25	100.5 (S.T.B.)	

Remarks: S.T.B. = Sewing Thread Break  
F.T.S. = Fabric Tear at Seam



**DETAILED RESULTS:**

**Bursting Strength**

Test Method: ASTM D3786/D3786M-18; Hydraulic method, Test area: 7.3 cm<sup>2</sup>.

Specimen No.	19		
Items	Client's requirement	Result	Conclusion
Bursting Strength (P.S.I.)	Min. 40	119.6	PASS

**Abrasion Resistance**

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

Specimen No.	18	---	---	---	---	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.	14-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



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**DETAILED RESULTS:**

**Zipper Strength**

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

Specimen No.	20	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	215.6(Tape break)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	75.9(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	

Specimen No.	21	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	159.5(Tape separate)	Min. 100
Elements Pull-off Test (lbf)	60.1(Elements pull-off)	Min. 12
Elements Slippage Test (lbf)	29.4(Elements pull-off)	Min. 10
Resistance to Pull-Off Slider Pull (lbf)	75.2(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



## DETAILED RESULTS:

### Zipper Strength

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

Specimen No.	22	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	197.3(Tape separate)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	63.2(Slider break)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (In. lbf) Counter-Clockwise (In. lbf)	6.6 4.5	Min.4
Conclusion	PASS	



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**DETAILED RESULTS:**

**Zipper Operability**

Test Method: ASTM D2062-03(R2021)

Specimen No.	20	
Items	Result	Client's requirement
Chain opening (lbf)	0.6	Max. 2
Chain closing (lbf)	0.6	Max. 2
Conclusion	PASS	

Specimen No.	21	
Items	Result	Client's requirement
Chain opening (lbf)	1.4	Max. 2
Chain closing (lbf)	0.9	Max. 2
Conclusion	PASS	

Specimen No.	22	
Items	Result	Client's requirement
Chain opening (lbf)	0.6	Max. 2
Chain closing (lbf)	0.8	Max. 2
Conclusion	PASS	



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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.	14-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					

\* Dry-cleaning / 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:**

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

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

Specimen No.	14-Lining				
Preliminary Tests	Fabric Surface	Smooth	Test Specimen Direction		Face Length
Items	Result				Client's requirement
	As Received		After Laundering*		
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	7.4	-	7.4	-	>3.5s
(2)	7.2	-	7.2	-	
(3)	7.9	-	7.7	-	
(4)	7.7	-	7.4	-	
(5)	7.6	-	7.5	-	
(Avg.)	7.6	-	7.4	-	
Conclusion	PASS				

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



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**DETAILED RESULTS:**

**Fiber Content**

Test Method: AATCC 20-2020

Specimen No.	14-Shell base		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

Specimen No.	14-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

Specimen No.	14- Mesh lining		
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



**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
<b>1.Fibre Content</b>		
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.	The lab can't tell if it's recycled 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
<b>2. Bilingual Requirement</b>		
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
<b>3. Dealer Identity</b>		
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
<b>4. Country Of Origin</b>		
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
<b>5. Form and Application Of Labels</b>		



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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	



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## DETAILED RESULTS:

### Client's Requirement for Static Load Test

Test Item	Test Method	Requirement	Conclusion
Static Load Test	<ol style="list-style-type: none"><li>1. Visual check the normal function of the sample under test as received.</li><li>2. Hanging the bag in a proper place.</li><li>3. Place the test load on the bag with 50lb for 2 hours.</li><li>4. Observe and record any failure, structural breakage, deformation or any other unusual change from the original state of sample.</li></ol>	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
<div style="text-align: center;">  <p data-bbox="651 1738 943 1908">                         Main pocket: 17.89L                          Side pocket: 16.99L                          Small side pocket: 9.60L                          Small pocket: 8.93L                          Total: 53.41L                     </p> </div>		



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**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	White foam	Raw material (thinnest style)
2	Grey coated grey textile	Raw material
3	Black plastic	Zipper teeth (big zipper head style)
4	Black coating	Zipper head (big zipper head style)
5	Silvery metal	Zipper slider (big zipper head style)
6	Black plastic	Zipper teeth (silvery zipper head style)
7	Silvery metal	Zipper slider (silvery zipper head style)
8	Black soft plastic	Elastic
9	Black plastic	Main body of lobster clasp
10	Silvery metal	Push rod of lobster clasp
11	Silvery metal	D-ring
12	Silvery metal	Frame of adjustable buckle
13	Black coated white label	Big label
14	Workation renew backpack	Finished product
15	Black three-dimensional mesh fabric	Raw material
16	Black strap	Raw material
17	Light grey lining fabric	Raw material
18	Dark grey shell fabric	Raw material
19	Black mesh lining fabric	Raw material
20	Black zipper (side edge/front)	Raw material
21	Black main zipper	Raw material
22	Black lining zipper	Raw material
23	Black three-dimensional mesh fabric (retest)	Raw material



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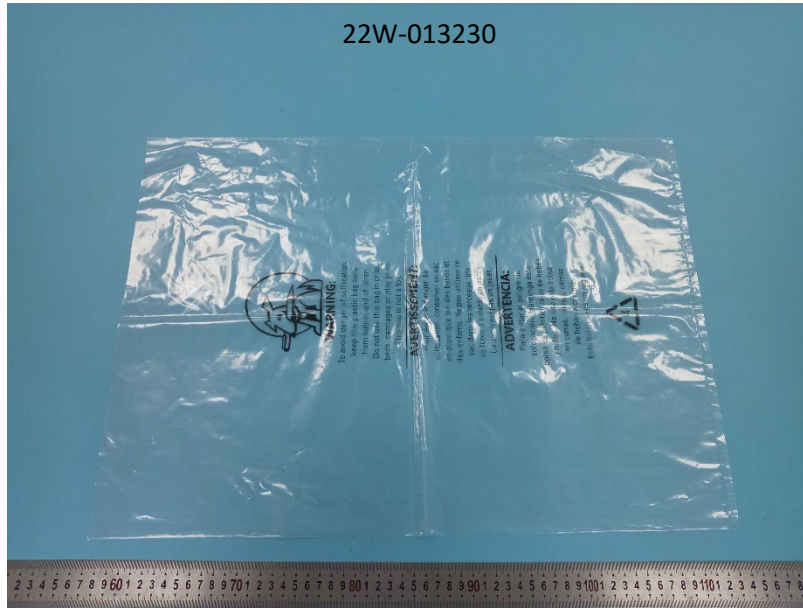
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**SAMPLE PHOTO:**



-End Report-

