

## TEST REPORT

Test Report # 23W-013012 Date of Report Issue: October 13, 2023  
Date of Sample Received: September 11, 2023 Pages: Page 1 of 38

### CLIENT INFORMATION:

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



### SAMPLE INFORMATION:

Description: DUFFLE WITH EXTERIOR SHOE COMPARTMENT.  
Assortment: BKC  
PO No.: -  
Item No./Name: BG211  
Item Class: ASHBURY BAG  
Factory/Supplier: USS163  
Country of Origin: China  
Country of Distribution: Canada, United States  
Testing Period: 09/13/2023-09/22/2023, 09/25/2023-09/27/2023

### OVERALL RESULT:

**🔍 PASS with information**

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

QIMA (HANGZHOU) TESTING CO., LTD.

QIMA (HANGZHOU) TESTING CO., LTD.

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 in Stickers, Films and Surface Coating Materials
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
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Mercury in Paints and Surface Coatings
PASS	US States Requirement, Per-and Polyfluoroalkyl Substances (PFAS) Content (Total Fluorine Method)
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 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



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CONCLUSION	TEST(S) CONDUCTED
PASS	Zipper Operability
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	Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling
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.	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	---	---	---	---	<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.



**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.	2	4	5+7	6	8	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	21	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9+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	---	---	---	<b>100</b>
<b>Conclusion</b>	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.



**DETAILED RESULTS:**

**Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Stickers, Films and Surface Coating Materials**

Test Method: ASTM F963-17 Clause 8.3.1  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	---	---	---	---	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>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*  
 mg/kg=Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit =15 mg/kg)



**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.	2	3	4	5+7	6	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	21	<b>90</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	9+10	11+12+13	14	---	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	---	<b>90</b>
<b>Conclusion</b>	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.	3	---	---	---	---	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.





**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.	2	4	5+7	6	8	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.	9+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	---	---	---	<b>75</b>
<b>Conclusion</b>	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.



**DETAILED RESULTS:**

**Canadian Surface Coating Materials Regulations SOR/2016-193, Total 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.	3	---	---	---	---	Total Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
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 = 10 mg/kg)



**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.	1	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	ND	---	---	<b>100</b>
<b>Conclusion</b>	PASS	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)



**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.	4+6	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Nickel (Ni)	365	---	---	---	---	
<b>Conclusion</b>	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.



**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.	4+6	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Tungsten (W)	20	---	---	---	---	
<b>Conclusion</b>	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.



**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.		2	3	5+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
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.



**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.	9+10	11+12+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
Di-n-hexyl phthalate (DHEXP / DnHP) 84-75-3	ND	ND	---	---	1000
Dicyclohexyl phthalate (DCHP) 84-61-7	ND	ND	---	---	1000
Diisobutyl phthalate (DIBP) 84-69-5	ND	ND	---	---	1000
Di-n-pentyl phthalate (DPENP) 131-18-0	ND	ND	---	---	1000
<b>Conclusion</b>	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.



**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.		2	3	5+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
<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.





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

**Remark:**  
 The specification is quoted from client's requirement.



**DETAILED RESULTS:**

**Client's Requirement, Phthalates content**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		2	3	5+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 (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	

**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.



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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.		9+10	11+12+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	---	---	

**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.



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**DETAILED RESULTS:**

**Color Fastness to Water**

Test Method: AATCC 107-2013

Specimen No.	15	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	---	---	---	---	-
Staining on multi-fiber stripe						
-Acetate	4.0	---	---	---	---	Min. 3.5
-Cotton	4.5	---	---	---	---	Min. 3.5
-Nylon	4.0	---	---	---	---	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.

**Color Fastness to Crocking**

Test Method: AATCC 8-2016

Specimen No.	15	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	3.5	---	---	---	---	Min. 3.5
Wet staining	3.5	---	---	---	---	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.



**DETAILED RESULTS:**

**Color Fastness to Light**

Test Method: AATCC 16.3-2020; Option 3; Xenon Arc Lamp.

Specimen No.	15	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (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.

**Dimensions**

Test Method: IHTM, Standard Measure

Specimen No.	15	---	---	---	---	Requirement
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	
Length	51.0	---	---	---	---	N/A
Width	23.0	---	---	---	---	N/A
Height	38.0	---	---	---	---	N/A
Conclusion	Information only	---	---	---	---	

**Article Weight**

Test Method: IHTM-TXHZ-010

Specimen No.	15		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	730	Information only



**DETAILED RESULTS:**

**Defects**

Test Method: ASTM D3990 – 12(2020); Visual Examination

Specimen No.	15	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.	16	17	18	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m <sup>2</sup> )	241	112	172	---	---	N/A
(oz/yd <sup>2</sup> )	7.11	3.30	5.07	---	---	N/A
Conclusion	Information only	Information only	Information only	---	---	-

**Tensile Strength**

Test Method: ASTM D5034-21

Specimen No.	16	Client's requirement (lbs)
Items	Result (lbf)	
Warp	381.7	Min. 25
Weft	220.9	Min. 25
Conclusion	PASS	-

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



**DETAILED RESULTS:**

**Tensile Strength**

Test Method: ASTM D5034-21

Specimen No.	17	Client's requirement (lbs)
Items	Result (lbf)	
Warp	133.5	Min. 25
Weft	184.8	Min. 25
Conclusion	PASS	-

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



**DETAILED RESULTS:**

**Tearing Strength**

Test Method: ASTM D1424-21; Elmendorf

Specimen No.	16	17	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Warp yarns torn (lbf)	>14.1	4.3	---	---	---	Min. 1.5
Weft yarns torn (lbf)	>14.1	6.0	---	---	---	Min. 1.5
Conclusion	PASS	PASS	---	---	---	-

Note:

- (1) Warp test - test in which the warp yarns are torn.  
Weft test - test in which the weft yarns are torn.
- (2) The maximum capacity of the tester is 14.1lbf.





**DETAILED RESULTS:**

**Seam Strength**

Test Method: With reference to ASTM D 1683/D1683M-22

Specimen No.	15-Shell		
Items	Client's requirement	Result	Conclusion
Bottom seam (Length) (lbf)	Min. 25	86.1 (S.T.B.)	PASS

Specimen No.	15-Shell with lining		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	74.5 (S.T.B.)	PASS
Bottom seam (Width) (lbf)	Min. 25	89.3 (S.T.B.)	

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



**DETAILED RESULTS:**

**Bursting Strength**

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

Specimen No.	18		
Items	Client's requirement	Result	Conclusion
Bursting Strength (P.S.I.)	Min. 40	>200*	PASS

Remarks: \*= Exceeds the limitation of tester due to the nature of the fabric.

**Abrasion Resistance**

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

Specimen No.	16	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
End point (rubs)	>7500	---	---	---	---	7500
Conclusion	PASS	---	---	---	---	-

**Pilling Resistance**

Test Method: ASTM D3512/D3512M-22; After 30 min. tumbling in Random tumble Pilling Tester

Specimen No.	16	---	---	---	---	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: LM

Specimen No.	19	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	186.1(Tape Separate)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	46.3(Slider break)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (In. lbf) Counter-Clockwise (In. lbf)	4.0 4.0	Min.4
Conclusion	PASS	

**Zipper Strength**

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

Specimen No.	20	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	119.2(Tape Separate)	Min. 85
Resistance to Pull-Off Slider Pull (lbf)	31.4(Slider break)	Min.25
Resistance to Twist of Pull and Slider Test Clockwise (In. lbf) Counter-Clockwise (In. lbf)	2.6 2.5	Min.1.5
Conclusion	PASS	



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**DETAILED RESULTS:**

**Zipper Operability**

Test Method: ASTM D2062-03(2021)

Specimen No.	19	
Items	Result	Client's requirement
Chain opening (lbf)	0.2	Max. 2
Chain closing (lbf)	0.4	Max. 2
Conclusion	PASS	

Specimen No.	20	
Items	Result	Client's requirement
Chain opening (lbf)	0.5	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.27.5-2023

Specimen No.	15-Shell				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and 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	
Conclusion	PASS				

\* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50°C, Synthetic detergent, Tumble dry normal.

**Burn Code Description:**

DNI = Did not ignite;



**DETAILED RESULTS:**

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

Test Method: CAN/CGSB-4.2 No.27.5-2023

Specimen No.	15-Lining				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(1)	-	IBE	-	IBE	>3.5s
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	
(6)	-	IBE	-	IBE	
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
Conclusion	PASS				

\* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50°C, Synthetic detergent, Tumble dry normal.

**Burn Code Description:**

IBE = Ignited but extinguished;



**DETAILED RESULTS:**

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

Test Method: CAN/CGSB-4.2 No.27.5-2023

Specimen No.	15-Mesh				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(1)	-	IBE	-	IBE	>3.5s
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	
(6)	-	IBE	-	IBE	
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
Conclusion	PASS				

\* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50°C, Synthetic detergent, Tumble dry normal.

**Burn Code Description:**

IBE = Ignited but extinguished;



**DETAILED RESULTS:**

**Fiber Content**

Test Method: AATCC TM20-2021

Specimen No.	15-Shell		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

Specimen No.	15-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

**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**

Section	Requirement	Conclusion
2	Country of Origin Markings	PASS

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

Clause	Test	Conclusion
c.C-11	French Labeling	PASS



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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



**DETAILED RESULTS:**

**Client-Performance Requirements-Capacity Test of Bags**

Test Item	Test Method	Conclusion
Capacity test	1.Weigh 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="655 1576 903 1711">                         Main pocket: 34.06L                          Left pocket: 2.21L                          Right pocket: 2.21L                          Total: 38.48 L                     </p> </div>		



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black textile	Main body
2	Brown synthetic leather	Handle
3	Black coating	Edge oil of handle
4	Dull silvery metal	Main zipper puller
5	Silvery plated black soft plastic	Main zipper teeth
6	Dull silvery metal	Lining zipper puller
7	Black soft plastic	Lining zipper teeth
8	Black plastic	Joint buckle of handle
9	White foam	Protection pad filler of braces
10	White foam	Bottom filler
11	Black coated white label	Big label
12	Black coated white label	Middle label
13	Black coated white label	Small label
14	White non-woven textile	Filler of front middle decoration belt
15	Black/brown bag	Finished product
16	Black shell fabric	Raw material
17	Black woven lining fabric	Raw material
18	Black mesh lining fabric	Raw material
19	Black zipper	Raw material (big style)
20	Black zipper	Raw material (small style)



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**SAMPLE PHOTO:**



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