

Test Report # 18W-004714 Date of Report Issue: October 8, 2019

Date of Sample Received: June 29, 2018 Pages: Page 1 of 39

CLIENT INFORMATION:

Company: Spector & Co.

Address: -

SAMPLE INFORMATION:

Description: Backpack with lay-flat accessory compartment. Black faux Safiano

Assortment: BLACK

Model/style No.: CONCRETE JUNGLE BACKPACK

SKU No.: BG113 Factory/Supplier: USK030

Quantity Submitted: 2

Country of Distribution: Canada, USA

Country of Origin: China

Testing Period: 06/29/2018-07/31/2018,08/16/2018-08/20/2018,01/29/2019-01/31/2019

OVERALL RESULT:

PASS with information

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

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Test Report # 18W-004714 Date of Report Issue: October 8, 2019

Date of Sample Received: June 29, 2018 Pages: Page 2 of 39

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 Substrate Materials
PASS	Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates
PASS	California Proposition 65, Total Cadmium in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
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	19 CFR 134.11, Country of Origin
PASS	Uniform Packaging and Labeling Regulation
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	Consumer Packaging and Labeling Act (R.S., 1985, c. C-38)
PASS	Textile Labeling Act and Textile Labelling and Advertising Regulations- Labeling Review
PASS	Color Fastness to Crocking
PASS	Color Fastness to Water
PASS	Color Fastness to Light
Refer to Detailed Results	Dimensions
Refer to Detailed Results	The capacity in liters for bag
Refer to Detailed Results	Article Weight
PASS	Defects
PASS	Workmanship
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Refer to Detailed Results	Fabric Weight Per Unit Area
PASS	Tensile Strength
action String >	Tearing Strength
PASSA CE	Bursting Strength



Test Report # 18W-004714 Date of Report Issue: October 8, 2019

Date of Sample Received: June 29, 2018 Pages: Page 3 of 39

PASS	Seam Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Zipper Strength
PASS	Zipper Operability
PASS	Shear Strength Of Hook & Loop
Refer to Detailed Results	Peeling Strength of Hooks
Refer to Detailed Results	Water Repellency-Spray Test
PASS	Water Resistance –Rain Test
Refer to Detailed Results	Fiber Content
PASS	Client's Requirement for Static Load Test



Test Report # 18W-004714 Pages: Page 4 of 39

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	4	5	Limit
Test Item	Result	Result	Result	Result	Result	(mg/kg)
rest item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(0, 0,
Total Lead (Pb)	24	24	ND	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)

Remark:

The specification is quoted from client's requirement.



Test Report # 18W-004714 Pages: Page 5 of 39

DETAILED RESULTS:

Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation SOR/2010-273 as Amended by SOR/2016-171, Total Lead in Accessible Substrates

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	4	5	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	24	24	ND	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)



Test Report # 18W-004714 Pages: Page 6 of 39

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	4	5	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)

Remark:

The specification is quoted from client's requirement.



Test Report # 18W-004714 Pages: Page 7 of 39

DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.3

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		3	4	5		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		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND		1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND		1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND		1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND		1000
Conclusion	1	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)

Remark:

The specification is quoted from client's requirement.



Test Report # 18W-004714 Pages: Page 8 of 39

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-C1001-09.3(Modified), In-House Method Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	0.	3	4	5		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		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND		1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND		1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND		1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND		1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND		1000
Conclusion	1	PASS	PASS	PASS		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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



est Report # 18W-004714 Pages: Page 9 of 39

DETAILED RESULTS:

19 CFR 134.11, Country of Origin

Specimen No.	6				
Test	Observation	Conclusion			
Country of Origin	Present on label	PASS			

Uniform Packaging and Labeling Regulation

Specimen No. 6				
Test	Observation	Conclusion		
Declaration of Identity	The packaging contains the declaration of identity	PASS		
Declaration of Responsibility	The packaging contains the declaration of responsibility	PASS		



Test Report # 18W-004714 Pages: Page 10 of 39

DETAILED RESULTS:

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

Specimen No.	6	
Section	Requirement	Conclusion
2	Present on label	PASS

Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling

Specimen No.	6	
Clause	Test	Conclusion
c.C-11	French Labeling	PASS

Consumer Packaging and Labeling Act (R.S., 1985, c. C-38)

Specimen No.	6	
Section	Requirement	Conclusion
10	Place of Manufacture	PASS



est Report # 18W-004714 Pages: Page 11 of 39

DETAILED RESULTS:

Textile Labeling Act and Textile Labelling and Advertising Regulations- Labeling Review

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

Specimen No.	6			
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.	Comply with the requirement	Pass		
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.	N/A	N/A		
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.	N/A	N/A		
2. Bilingual Requirement	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		



Test Report # 18W-004714 Pages: Page 12 of 39

Specimen No.		6
Test Parameters	Observation	Result
4. Country Of Origin		
If the article or any fabric or fibre therein is imported, Country of origin must be displayed on the label.	Comply with the requirement	Pass
5. Form And Application Of Labels		
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 homecrafted articles. Exceptions to this requirement exist for custommade articles, such as a tailored suit or a carpet cut to the customer's specification.		Pass
Conclusion		PASS



est Report # 18W-004714 Pages: Page 13 of 39

DETAILED RESULTS:

Color Fastness to Crocking

Test Method: AATCC 8-2016

Specimen No.	6-Shell	6-Lining	Client's
Items	Result (Grade)	Result (Grade)	requirement (Grade)
Dry staining	4.5	4.5	Min. 4.0
Wet staining	4.5	4.5	Min. 2.5
Conclusion	PASS	PASS	-

Specimen No.	6-Mesh	6-Strap	Client's
Items	Result (Grade)	Result (Grade)	requirement (Grade)
Dry staining	4.5	4.0	Min. 4.0
Wet staining	4.5	4.5	Min. 2.5
Conclusion	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.



Test Report # 18W-004714 Pages: Page 14 of 39

DETAILED RESULTS:

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	6-Shell Result (Grade)	6-Lining Result (Grade)	Client's requirement (Grade)
Change in shade	4.5	4.5	Min. 4.0
Staining on multi-fiber stripe			
-Acetate	4.5	4.5	Min. 3.5
-Cotton	4.0	4.5	Min. 3.5
-Nylon	4.0	4.5	Min. 3.5
-Polyester	4.5	4.5	Min. 3.5
-Acrylic	4.5	4.5	Min. 3.5
-Wool	4.5	4.5	Min. 3.5
Conclusion	PASS	PASS	-

Specimen No.	6-Mesh	6-Strap	Client's
Items	Result (Grade)	Result (Grade)	requirement (Grade)
Change in shade	4.5	4.5	Min. 4.0
Staining on multi-fiber stripe			
-Acetate	4.5	4.5	Min. 3.5
-Cotton	4.5	4.5	Min. 3.5
-Nylon	4.0	4.5	Min. 3.5
-Polyester	4.0	4.5	Min. 3.5
-Acrylic	4.5	4.5	Min. 3.5
-Wool	4.5	4.5	Min. 3.5
Conclusion	PASS	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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est Report # 18W-004714 Pages: Page 15 of 39

DETAILED RESULTS:

Color Fastness to Light

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

Specimen No.	6-Shell	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.



est Report # 18W-004714 Pages: Page 16 of 39

DETAILED RESULTS:

Dimensions

Test Method: IHTM, Standard Measure;

Specimen No.	6	
Items	Result (inch)	Client's requirement
Length	12 ³/ ₈	
Width	4 ³ / ₄	N/A
Height	16 ⁷ / ₈	
Conclusion	Information only	-

The capacity in liters for bag

Test Method: IHTM, Standard Measure;

Specimen No.	6	
Items	Result (liter)	Client's requirement
Capacity	15.6	N/A
Conclusion	Information only	-



Test Report # 18W-004714 Pages: Page 17 of 39

DETAILED RESULTS:

Article Weight

Test Method: IHTM 010

Specimen No.	6	Client's
Items	Result	requirement
(g/piece)	930	N/A
Conclusion	Information only	-

Defects

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

Specimen No.	6	Dogwinomont	
Item	Result	Requirement	
Observation	No major defect	Visual examination to verify noticeable defects (such as missing components, obvious knitting /weaving defects, improper functioning component).	
Conclusion	PASS		



est Report # 18W-004714 Pages: Page 18 of 39

DETAILED RESULTS:

Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	6	Dogwiromont
Item	Result	Requirement
Observation	No major poor workmanship	Visual examination to verify noticeable poor Workmanship (such as: Poor sewing: Broken seam Missing stitches or Skipped / Uneven /wave stitches or stitched holes on visible area. Insecure back stitches / Uneven stitch tension / Needle chewing Misaligned seam. Poor riveting metal eyelet or other metal parts Dirty / Glue/ Scratch / Wrinkle / Pen Mark / Oil Stain / Water Stain The inside hiding thread expose. Poor electro-plating or spraying on handle metal plate Obvious Scratched mark on extendable handle or metal plate Fabric , webbing band or strap getting discoloration
Conclusion	PASS	-



est Report # 18W-004714 Pages: Page 19 of 39

DETAILED RESULTS:

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

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

Specimen No.		6-Shell			
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	I SMOOTH I LOST SHOCIMON LIIFOCTION L			Face Length
		Re	esult		
Items	As Reco	eived	After Dry-cle Launde		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	>3.5s
(6)	-	DNI	-	DNI	>3.35
(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:

= Did not ignite;



est Report # 18W-004714 Pages: Page 20 of 39

DETAILED RESULTS:

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

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

Specimen No.	6-Lining				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	Smooth	Test Specimen Direction		Face Length
	Result				
Items	As Reco	eived	After Dry-cle Launde		Client's requirement
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	IBE	-	IBE	
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	>3.5s
(6)	-	IBE	-	IBE	>3.55
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
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:

= Ignited but extinguished;



est Report # 18W-004714 Pages: Page 21 of 39

DETAILED RESULTS:

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

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

Specimen No.		6-Back mesh			
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	Smooth	Smooth <u>Test Specimen Direction</u>		
		Re	esult		
Items	As Reco	eived	After Dry-cle Launde		Client's requirement
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	IBE	-	IBE	
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	
(6)	-	IBE	-	IBE	>3.5s
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
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:

= Ignited but extinguished;



Test Report # 18W-004714 Pages: Page 22 of 39

DETAILED RESULTS:

Fabric Weight Per Unit Area

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

Specimen No.	6-Shell	6-Lining	6-Mesh	Client's
Items	Result	Result	Result	requirement
(g/m²)	794	193	180	N/A
(oz/yd²)	23.4	5.69	5.31	N/A
Conclusion	Information only	Information only	Information only	-

Tensile Strength

Test Method: ASTM D5034-09(Reapproved 2013); Instron CRE - 1" Grab

Specimen No.	6-Lining	Client's
Items	Result (lbf)	requirement (lbf)
Warp	283.2*	Min. 25
Weft	116.2*	Min. 25
Conclusion	PASS	-

Remark: *: All the specimens were jaw broken.



est Report # 18W-004714 Pages: Page 23 of 39

DETAILED RESULTS:

Tearing Strength

Test Method: ASTM D1424-09(R2013) Elmendorf

Specimen No.	6-Lining	Client's
Items	Result (lbf)	requirement (lbf)
Warp yarns torn	12.3	Min. 1.5
Weft yarns torn	8.8	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.

Bursting Strength

Test Method: ASTM D3786/D3786M-13; Mullen Bursting Tester

Specimen No.	6-Mesh	Client's
Items	Result (P.S.I.)	requirement (P.S.I.)
Bursting Strength	149	Min. 40
Conclusion	PASS	-



Test Report # 18W-004714 Pages: Page 24 of 39

DETAILED RESULTS:

Seam Strength

Test Method: with reference to ASTM D 1683/D1683M-11a; Instron CRE

Specimen No.	6	Client's
Items	Result (lbf)	requirement (lbf)
Side seam-Front	185.4(S.T.B.)	Min. 25
Side seam-Back	143.4(F.T.S.)	Min. 25
Bottom seam	196.9(F.T.S.)	Min. 25
Conclusion	PASS	-

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

F.T.S. = Fabric Tear at Seam



Test Report # 18W-004714 Pages: Page 25 of 39

DETAILED RESULTS:

Abrasion Resistance

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

Specimen No.	6-Shell	6-Mesh	Client's
Items	Result (rubs)	Result (rubs)	requirement (rubs)
End point	>10000	>10000	10000
Conclusion	PASS	PASS	-

Pilling Resistance

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

Specimen No.	6-Shell	6-Mesh	Client's
Items	Result	Result	requirement
As received Rating	4.5	4.5	Min. 3.5
Conclusion	PASS	PASS	-

Remarks: Pilling Rating

5 No pilling

4 Slight pilling

3 Moderate pilling

2 Severe pilling

1 Very severe pilling



est Report # 18W-004714 Pages: Page 26 of 39

DETAILED RESULTS:

Zipper Strength

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

Specimen No.	6-Black metal zipper		
Items	Result	Client's requirement	
Chain Crosswise Strength Test (lbf)	113.6(Elements pull off)	Min. 80	
Element Pull-Off Test (lbf)	11.1(Elements pull off)	Min. 11	
Element Slippage Test (lbf)	18.1(Elements pull off)	Min. 9	
Resistance to Pull-Off Slider Pull (lbf)	54.7(Slider break down)	Min.35	
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	>6.0 >6.0	Min.4	
Conclusion	PASS		

Zipper Operability

Test Method: ASTM D2062-03(R2014)

Specimen No.	6-Black metal zipper		
Items	Result	Client's requirement	
Chain opening (lbf)	0.6	Max. 2	
Chain closing (lbf)	0.6	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 5 of tested specimens.

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est Report # 18W-004714 Pages: Page 27 of 39

DETAILED RESULTS:

Zipper Strength

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

Specimen No.	6-Grey nylon zipper	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	123.2(Elements pull off)	Min. 85
Resistance to Pull-Off Slider Pull (lbf)	39.2(Slider break down)	Min.25
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	4.1 3.8	Min.1.5
Conclusion	PASS	

Zipper Operability

Test Method: ASTM D2062-03(R2014)

Specimen No.	6-Grey nylon zipper	
Items	Result	Client's requirement
Chain opening (lbf)	0.2	Max. 2
Chain closing (lbf)	0.2	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.



Test Report # 18W-004714 Pages: Page 28 of 39

DETAILED RESULTS:

Shear Strength Of Hook & Loop

Test Method: ASTM D5169-98(R2015); Effective width 1 inch

Specimen No.	6		
	Re	Client's requirement	
Items	Original (Kpa)	After 5000 cycles (Kpa)	requirement
Mean Shear Strength	193	158	Min. 65(Kpa)
Conclusion	PASS	PASS	-

Peeling Strength of Hooks

Test Method: ASTM D5170-98(R2015); Effective width 1 inch

Specimen No.	6		
	Res	Client's requirement	
Items	Original (lbf)	After 5000 cycles (lbf)	requirement
Mean Peel Strength	2.1	1.6	N/A
Conclusion	Information only	Information only	-



Test Report # 18W-004714 Pages: Page 29 of 39

DETAILED RESULTS:

Water Repellency-Spray Test

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

Specimen No.	7*	
Items	Result	Client's requirement
items	Specimen 1#	
As received Rating	70	N/A
Conclusion	Information only	-

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

Note: *: Just mention that the Water Repellency-Spray Test of Shell fabric was done on 70



Test Report # 18W-004714 Pages: Page 30 of 39

DETAILED RESULTS:

Water Resistance - Rain Test

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

Specimen No.		6-Shell			
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			-	



Test Report # 18W-004714 Pages: Page 31 of 39

DETAILED RESULTS:

Fiber Composition

Test Method: ASTM E1252-98(2013)^{e1}, analysis was performed by FTIR

Specimen No.	6- Coating of shell	Client's	
Items	Result	requirement	
The sample contains	Polyurethane	N/A	
Conclusion	Information only	-	

Remark: The test was carried out by external laboratory assessed as competent

Fiber Content

Test Method: AATCC 20-2013

Specimen No.	6-Lining	Client's
Items	Result (%)	requirement (%)
Polyester	100	N/A
Conclusion	Information only	-



Test Report # 18W-004714 Pages: Page 32 of 39

DETAILED RESULTS:

Client's Requirement for Static Load Test

Test Item	Test Method	Requirement	Conclusion
Static Load test	Place the test load on the bag with 50lb for 2 hours.	No damage	PASS



Test Report # 18W-004714 Pages: Page 33 of 39

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Silvery metal	Zipper teeth
2	Bright silvery metal	Zipper head
3	Black synthetic leather	Main body
4	Black plastic	Plastic buckle
5	White foam	Filler of strap
6	Backpack with lay-flat accessory compartment. Black faux Safiano	Finished product
7	Backpack with lay-flat accessory compartment. Black faux Safiano	Finished product



Test Report # 18W-004714 Pages: Page 34 of 39







Test Report # 18W-004714 Pages: Page 35 of 39







est Report # 18W-004714 Pages: Page 36 of 39







Test Report # 18W-004714 Pages: Page 37 of 39







Test Report # 18W-004714 Pages: Page 38 of 39







est Report # 18W-004714 Pages: Page 39 of 39



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