PAI			
TEST REPORT			
Test Report #	18W-003933	Date of Report Issue:	November 9, 2018
Date of Sample Received:	June 15, 2018	Pages:	Page 1 of 39
CLIENT INFORMATION:			
Company:	Spector & Co.		-
Address:	-		
SAMPLE INFORMATION:			
Description:	32L round duffle with eas	sy access storage and cros	s body strap
Assortment:	Grey		
Model/style No.:	NOMAD MUST HAVES DU	JFFLE	
SKU No.:	BG205		
Factory/Supplier:	USB059		
Quantity Submitted:	2		
Country of Distribution:	Canada & USA		
Country of Origin:	China		
Testing Period:	06/15/2018-06/27/2018, 09/26/2018-09/27/2018,	,07/04/2018-07/12/2018, ,11/06/2018-11/09/2018	08/07/2018-08/09/2018,

OVERALL RESULT:

\mathcal{P} PASS with information

Refer to page 2 for test result summary and appropriate notes.

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Keim.lee

Kevin Lee Technical Manager



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Date of Sample Received:

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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 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	Client's Requirement, Phthalates content
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
PASS	Tearing Strength



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PASS	Bursting 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
Refer to Detailed Results	Fiber Content
PASS	Client's Requirement for Static Load Test





Pages:

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 (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	21	31	30	57	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.



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Pages:

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)	21	31	30	57	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)



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Pages:

DETAILED RESULTS:

California Proposition 65, Total Cadmium in Substrate Materials

Test Method:ASTM F963-17 Clause 8.3.1Analytical 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.



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Pages:

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



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Pages:

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

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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



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DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method:	CPSC-CH-C1001-09.3
Analytical Method:	Gas Chromatography with Mass Spectrometry

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

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19 CFR 134.11, Country of Origin

Specimen No.	6		
Test	Observation Conclus		
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	



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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	



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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		
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 Section Testing
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6 Specimen No. Observation **Test Parameters** Result 4. Country Of Origin If the article or any fabric or fibre therein is imported, Country of Comply with the Pass origin must be displayed on the label. requirement 5. Form And Application Of Labels The form of a label must ensure that the information contained Comply with the on the label is factual, legible and accessible to the prospective Pass requirement consumer at the time of purchase. 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 Comply with the prepackaged articles and labelling alternatives exist for home-Pass requirement crafted 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

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Color Fastness to Crocking

Test Method: AATCC 8-2016

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

Specimen No.	6-Tape	Client's
ltems	Result (Grade)	requirement (Grade)
Dry staining	4.0	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

Test Method: AATCC 107-2013

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

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

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

Specimen No.	6-Shell	Client's
ltems	Result (Grade)	requirement (Grade)
After 20 AFU Change in shade	4.0	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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Dimensions

Test Method: IHTM, Standard Measure;

Specimen No.	6		
ltems	Result (inch)	Client's requirement	
Diameter	10 ¹ / ₂		
Height	20 ¹ / ₄	N/A	
Conclusion	Information only	-	

The capacity in liters for bag

Test Method: IHTM, Standard Measure;

Specimen No.	6	
Items	Result (liter)	Client's requirement
Capacity	30.1	N/A
Conclusion	Information only	-



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Article Weight

Test Method: IHTM 010

Specimen No.	6	Client's
Items	Result	requirement
(g/piece)	563	N/A
Conclusion	Information only	-

Defects

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

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





Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	6	Doguiromont
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	-



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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.	6-Shell				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>				Face Length
		Re	esult		
Items	As Rec	eived	<u>After Dry-cle</u> Launde		Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	<u>Flame Spread</u> <u>(sec.)</u>	<u>Burn Code</u>	·
(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 $^\circ\!C$ and tumble dry on the normal setting.

Burn Code Description:

DNI

Did not ignite;

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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 Specime	n Direction	Face Length
		Re	esult		
Items	As Rec	eived	<u>After Dry-cle</u> Launde	-	Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	<u>Flame Spread</u> <u>(sec.)</u>	<u>Burn Code</u>	·
(1)	12.0	BB	11.4	BB	
(2)	11.7	BB	11.0	BB	
(3)	11.7	BB	10.7	BB	>3.5s
(4)	11.0	BB	11.9	BB	~3.35
(5)	12.3	BB	12.1	BB	
(Avg.)	11.7	BB	11.4	BB	
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 $^{\circ}$ C and tumble dry on the normal setting.

BB = Base burns;



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

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

Specimen No.	6-Side mesh				
Preliminary Tests	Fabric Smooth Test Specimen Direction			Face Length	
		Re	esult		
Items	As Rec	eived	<u>After Dry-cle</u> Launde		Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	Flame Spread (sec.)	<u>Burn Code</u>	
(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 $^{\circ}$ C and tumble dry on the normal setting.

Burn Code Description:

IBE

Ignited but extinguished;



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

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

Specimen No.	6-Inner mesh				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	Smooth	Test Specime	n Direction	Face Length
		Re	esult		
Items	As Rec	eived	<u>After Dry-cle</u> Launde	-	Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	<u>Flame Spread</u> <u>(sec.)</u>	<u>Burn Code</u>	
(1)	16.9	BB	16.9	BB	
(2)	17.4	BB	16.2	BB	
(3)	17.8	BB	16.8	BB	
(4)	16.7	BB	17.6	BB	>3.5s
(5)	18.2	BB	17.9	BB	
(Avg.)	17.4	BB	17.1	BB	
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 $^{\circ}$ C and tumble dry on the normal setting.

BB = Base burns;



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Fabric Weight Per Unit Area

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

Specimen No.	6-Shell	6-Lining	Client's
Items	Result	Result	requirement
(g/m²)	410	76.1	N/A
(oz/yd²)	12.1	2.24	N/A
Conclusion	Information only	Information only	-

Tensile Strength

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

Specimen No.	6-Shell	6-Lining	Client's
ltems	Result (lbf)	Result (lbf)	requirement (lbf)
Warp	224.5	137.8	Min. 25
Weft	193.5	110.9	Min. 25
Conclusion	PASS	PASS	-



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Tearing Strength

Test Method: ASTM D1424-09(R2013) Elmendorf

Specimen No.	6-Shell	6-Lining	Client's
ltems	Result (lbf)	Result (lbf)	requirement (lbf)
Warp yarns torn	>14.1	4.4	Min. 1.5
Weft yarns torn	>14.1	4.4	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

Bursting Strength

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

Specimen No.	6-Side mesh	Client's
Items	Result (P.S.I.)	requirement (P.S.I.)
Bursting Strength	160	Min. 40
Conclusion	PASS	-



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Seam Strength

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

Specimen No.	6	Client's
ltems	Result (lbf)	requirement (lbf)
Bottom seam	176.2(S.T.B.)	Min. 25
Conclusion	PASS	-

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



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Abrasion Resistance

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

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

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

Pilling Resistance

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

Specimen No. Items	6-Shell Result	Client's 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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Zipper Strength

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

Specimen No.	7-Silver zipper		
Items	Result	Client's requirement	
Chain Crosswise Strength Test (Ibf)	116.8(Elements separate)	Min. 80	
Element Pull-Off Test (lbf)	21.8(Elements pull off)	Min. 11	
Element Slippage Test (lbf)	21.8(Elements pull off)	Min. 9	
Resistance to Pull-Off Slider Pull (Ibf)	66.4(Puller Pull Out)	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.	7- Silver zipper	
Items	Result	Client's requirement
Chain opening (lbf)	0.6	Max. 2
Chain closing (lbf)	0.5	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 6 of tested specimens, based on the request from the applicant.

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Zipper Strength

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

Specimen No.	8-Black nylon zipper		
Items	Result Client requirem		
Chain Crosswise Strength Test (Ibf)	202.2(Tape break)	Min. 175	
Resistance to Pull-Off Slider Pull (Ibf)	40.4(Puller pull out)	Min.35	
Resistance to Twist of Pull and Slider Test Clockwise (Ib. inch) Counter-Clockwise (Ib. inch)	4.1 4.2	Min.4	
Conclusion	PASS		

Zipper Operability

Test Method: ASTM D2062-03(R2014)

Specimen No.	8- Black nylon zipper			
ltems	Result	Client's requirement		
Chain opening (lbf)	0.6	Max. 2		
Chain closing (lbf)	0.8	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 4 of tested specimens, based on the request from the applicant.





Water Repellency-Spray Test

Test Method: AATCC 22-2014; Spray Test – Tested under controlled condition, water temperature: 27±1°C

Specimen No.					
ltems	Result			Client's requirement	
items	Specimen 1#	Specimen 2#	Specimen 3#		
As received Rating	95	95	95	Min. 90	
Conclusion	PASS			-	

Items	Result			requirement
items	Specimen 1#	Specimen 2#	Specimen 3#	
As received Rating	95	95	95	Min. 90
Conclusion	PASS			-

	eceived ating		95	95	95	Min. 90
Cor	nclusion		PASS		-	
Remarks:	Spray	ay Rating				

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

Water Resistance – Rain Test

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

Specimen No.		6-Shell			
Itoms	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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Fiber Content

Test Method: AATCC 20-2013

Specimen No.	6- Shell fabric*			
ltems	Client's requirement	Result	Conclusion	
Polyester (%)	N/A	100	Information only	

Remark: *: Exclusive of coating

Fiber Content

Test Method: AATCC 20-2013

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



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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



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Pages:

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Bright silver metal	Lobster clasp
2	Light silver metal	Zipper head
3	Light silver metal	Zipper teeth
4	Silver metal	Doroid
5	White foam	Filler
6	32L round duffle with easy access storage and cross body strap bag	Finished product
7	Metal zipper	Metal zipper
8	Black nylon zipper	Nylon zipper



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