



TEST REPORT

Test Report # 18W-003823-S1 Date of Report Issue: October 23, 2019
 Date of Sample Received: June 20, 2018 Pages: Page 1 of 39

CLIENT INFORMATION:

Company: Spector & Co.
 Address: -



SAMPLE INFORMATION:

+Description: Duffle with water-resistant tech pocket, sweat proof area and ventilated shoe compartment. 42L capacity. 300D ripstop with 2pu water repellent.
 Assortment: BLACK
 +Model/style No.: BEAST GEAR DUFFLE
 SKU No.: BG208
 Factory/Supplier: USH045
 Quantity Submitted: 2
 Country of Distribution: Canada, United States
 Country of Origin: China
 Testing Period: 06/20/2018-06/28/2018,07/16/2018-07/25/2018,07/26/2018-07/31/2018, 08/16/2018-08/17/2018,09/16/2019-09/24/2019

OVERALL RESULT:

PASS with information

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

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST REPORT

Test Report # 18W-003823-S1 Date of Report Issue: October 23, 2019
 Date of Sample Received: June 20, 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	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	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

Remark: *Revised information and supersedes the previous report no. 18W-003823 date: 10/22/2019



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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
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
PASS	Seam Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Zipper Strength
PASS	Zipper Operability
Refer to Detailed Results	Water Repellency-Spray Test
PASS	Water Resistance –Rain Test
Refer to Detailed Results	Quantitative Composition Analysis
Refer to Detailed Results	Fiber Content
PASS	Client’s Requirement for Static Load Test





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+6+7	3	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	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	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	---	---	---	---	100
Conclusion	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 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+6+7	3	4	5	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Lead (Pb)	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	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.





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+6+7	3	4	5	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	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	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	---	---	---	---	75
Conclusion	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:****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+6+7	4	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
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

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

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

Remark:

The specification is quoted from client's requirement.





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+6+7	4	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
Conclusion		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:****Client's Requirement, Phthalates content**

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

Specimen No.		1	2+6+7	4	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
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

LT = Less than

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

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

Remark:

The specification is quoted from client's requirement.



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DETAILED RESULTS:

19 CFR 134.11, Country of Origin

Specimen No.	9	
Test	Observation	Conclusion
Country of Origin	Present on label	PASS

Uniform Packaging and Labeling Regulation

Specimen No.	9	
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



**DETAILED RESULTS:****Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin**

Specimen No.	9	
Section	Requirement	Conclusion
2	Present on label	PASS

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

Specimen No.	9	
Clause	Test	Conclusion
c.C-11	French Labeling	PASS

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

Specimen No.	9	
Section	Requirement	Conclusion
10	Place of Manufacture	PASS





DETAILED RESULTS:

Color Fastness to Crocking

Test Method: AATCC 8-2016

Specimen No.	9-Black body shell	9-Shell bottom	9-Black Mesh	Client's requirement (Grade)
Items	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4.5	4.5	4.5	Min. 4.0
Wet staining	4.5	4.0	4.5	Min. 2.5
Conclusion	PASS	PASS	PASS	-

Specimen No.	9-Grey Main lining	9-Silver lining	9-White lining	Client's requirement (Grade)
Items	Result (Grade)	Result (Grade)	Result (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.	9-Tape	Client's requirement (Grade)
Items	Result (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.





DETAILED RESULTS:

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	9-Black shell	9-Shell bottom	9-black Mesh	Client's requirement (Grade)
Items	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	4.5	4.5	Min. 4.0
Staining on multi-fiber stripe				
-Acetate	3.5	4.5	4.0	Min. 3.5
-Cotton	4.5	4.5	4.0	Min. 3.5
-Nylon	4.0	4.5	4.0	Min. 3.5
-Polyester	4.0	4.5	4.0	Min. 3.5
-Acrylic	4.5	4.5	4.0	Min. 3.5
-Wool	4.5	4.5	4.0	Min. 3.5
Conclusion	PASS	PASS	PASS	-

Specimen No.	9- Grey Main lining	9-silver lining	9-White lining	Client's requirement (Grade)
Items	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	4.5	4.5	Min. 4.0
Staining on multi-fiber stripe				
-Acetate	4.5	4.5	4.5	Min. 3.5
-Cotton	4.5	4.5	4.5	Min. 3.5
-Nylon	4.5	4.5	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	4.5	4.5	Min. 3.5
Conclusion	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.



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**DETAILED RESULTS:****Color Fastness to Water**

Test Method: AATCC 107-2013

Specimen No.	9-Tape	Client's requirement (Grade)
Items	Result (Grade)	
Change in shade	4.5	Min. 4.0
Staining on multi-fiber stripe		
-Acetate	4.5	Min. 3.5
-Cotton	4.5	Min. 3.5
-Nylon	4.5	Min. 3.5
-Polyester	4.5	Min. 3.5
-Acrylic	4.5	Min. 3.5
-Wool	4.5	Min. 3.5
Conclusion	PASS	-

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

Color Fastness to Light

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

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

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





DETAILED RESULTS:

Dimensions

Test Method: IHTM, Standard Measure;

Specimen No.	9	Client's requirement
Items	Result (inch)	
Diameter	12	N/A
Height	22 ⁵ / ₈	
Conclusion	Information only	-

The capacity in liters for bag

Test Method: IHTM, Standard Measure;

Specimen No.	9	Client's requirement
Items	Result (liter)	
Capacity	42	N/A
Conclusion	Information only	-





DETAILED RESULTS:

Article Weight

Test Method: IHTM 010

Specimen No.	9	Client's requirement
Items	Result	
(g/piece)	972	N/A
Conclusion	Information only	-

Defects

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

Specimen No.	9	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	-





DETAILED RESULTS:

Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	9	Requirement
Item	Result	
Observation	No major poor workmanship	<p>Visual examination to verify noticeable poor Workmanship (such as:</p> <p>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.</p> <p>Poor riveting metal eyelet or other metal parts</p> <p>Dirty / Glue/ Scratch / Wrinkle / Pen Mark / Oil Stain / Water Stain</p> <p>The inside hiding thread expose.</p> <p>Poor electro-plating or spraying on handle metal plate Obvious Scratched mark on extendable handle or metal plate</p> <p>Fabric , webbing band or strap getting discoloration</p>
Conclusion	PASS	-





DETAILED RESULTS:

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

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

Specimen No.	9-Black 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)	-	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 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:

IBE = Ignited, but extinguished



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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.	9-Black shell bottom				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	
(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; Machine wash at 50°C and tumble dry on the normal setting.

Burn Code Description:

DNI = Did not ignite



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DETAILED RESULTS:

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

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

Specimen No.	9-black Mesh				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 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 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:

IBE = Ignited, but extinguished



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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.	9-Grey main 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)	10.1	BB	9.3	BB	>3.5s
(2)	9.2	BB	9.0	BB	
(3)	9.0	BB	8.8	BB	
(4)	10.4	BB	10.3	BB	
(5)	9.5	BB	9.1	BB	
(Avg.)	9.6	BB	9.3	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°C and tumble dry on the normal setting.

Burn Code Description:

BB = Base burns;





DETAILED RESULTS:

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

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

Specimen No.	9- white 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)	-	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; Machine wash at 50°C and tumble dry on the normal setting.

Burn Code Description:

DNI = Did not ignite



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DETAILED RESULTS:

Fabric Weight Per Unit Area

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

Specimen No.	9-Shell body	9-Shell Bottom	Client's requirement
Items	Result	Result	
(g/m ²)	216	457	N/A
(oz/yd ²)	6.37	13.5	N/A
Conclusion	Information only	Information only	-

Specimen No.	9- Grey Main lining	Client's requirement
Items	Result	
(g/m ²)	84.2	N/A
(oz/yd ²)	2.48	N/A
Conclusion	Information only	-





DETAILED RESULTS:

Tensile Strength

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

Specimen No.	9-Black Shell	9- Grey Main lining	9-Shell bottom	Client's requirement (lbf)
Items	Result (lbf)	Result (lbf)	Result (lbf)	
Warp	369.7	150.0	288.2*	Min. 25
Weft	197.0	130.0	146.4	Min. 25
Conclusion	PASS	PASS	PASS	-

Remark: *: All the warp specimens were jaw broken.

Tearing Strength

Test Method: ASTM D1424-09(R2013); Elmendorf

Specimen No.	9-black Shell	9-Grey Main lining	9-Shell bottom	Client's requirement (lbf)
Items	Result (lbf)	Result (lbf)	Result (lbf)	
Warp yarns torn	>14.1	5.6	13.6	Min. 1.5
Weft yarns torn	>14.1	4.6	6.3	Min. 1.5
Conclusion	PASS	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-11a; Instron CRE

Specimen No.	9	Client's requirement (lbf)
Items	Result (lbf)	
Shell side seam-left	233.2(S.T.B.)	Min. 25
Shell side seam-right	295.8(F.T.S.)	Min. 25
Shell bottom seam-length	122.4(F.T.S.)	Min. 25
Lining side seam-left	78.4(Y.P.O.)	Min. 25
Lining side seam-right	95.7(F.T.S.)	Min. 25
Conclusion	PASS	-

Remarks: S.T.B. = Sewing Thread Breaks.
 F.T.S. = Fabric Tear at Seam
 Y.P.O. = Yarn Pull Out.





DETAILED RESULTS:

Abrasion Resistance

Test Method: ASTM D4966-12^{e1}, Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No.	9-Black Shell	Client's requirement (rubs)
Items	Result (rubs)	
End point	>10000	10000
Conclusion	PASS	-

Specimen No.	9-Shell bottom	Client's requirement (rubs)
Items	Result (rubs)	
End point	>10000	10000
Conclusion	PASS	-

Pilling Resistance

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

Specimen No.	9-Black Shell	9-Shell bottom	Client's requirement
Items	Result	Result	
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
- Very severe pilling





DETAILED RESULTS:

Zipper Strength

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

Specimen No.	9-Bigger nylon zipper	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	217.9(Tape break)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	128.2(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.	9-Bigger nylon zipper	
Items	Result	Client's requirement
Chain opening (lbf)	1.3	Max. 2
Chain closing (lbf)	1.6	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 6 of tested specimens, based on the request from the applicant.





DETAILED RESULTS:

Zipper Strength

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

Specimen No.	9-Longer nylon zipper	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	204.5(elements pull-off)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	75.2(Puller Pull Out)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	5.2 5.1	Min.4
Conclusion	PASS	

Zipper Operability

Test Method: ASTM D2062-03(R2014)

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

Remark: It is noted that a specific sampling plan is laid down per ASTM D2061-07(R2013) & ASTM D2062-03(R2014). The above results for Zipper Strength & Zipper Operability are drawn on the 6 of tested specimens, based on the request from the applicant.





DETAILED RESULTS:

Water Repellency-Spray Test

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

Specimen No.	9-Black shell			Client's requirement
Items	Result			
	Specimen 1#	Specimen 2#	Specimen 3#	
As received Rating	95	95	95	Min. 90
Conclusion	PASS			-

Specimen No.	10*			Client's requirement
Items	Result			
	Specimen 1#	Specimen 2#	Specimen 3#	
As received Rating	80	80	80	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
 - 0 Complete wetting of the entire face of the specimen

Note: *: just mention that the Water Repellency-Spray Test of Shell fabric was done on 80





DETAILED RESULTS:

Water Resistance –Rain Test

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

Specimen No.	9-Black shell				Client's requirement
Items	Result				
	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				-

Specimen No.	9-Shell bottom				Client's requirement
Items	Result				
	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				-





DETAILED RESULTS:

Fiber Content

Test Method: AATCC 20-2013

Specimen No.	9-Shell		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

Specimen No.	9-Main lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only



**DETAILED RESULTS:****Quantitative Composition Analysis**

Test Method: JY/T 001-1996/ ASTM E1131-08(2014)/ EPA 8270D: 2014

Test Instrument:

Instrument name	Model	Manufacturer	Internal number	The period of validity of calibration
Fourier transform infrared spectrometer	FTIR Nicolet iS10	Thermo Scientific	EC-151	2019.04.19
Inductively coupled plasma optical emission spectrometer	ICP 720-OES	Agilent	EC-002	2019.04.18
Thermogravimetric analyzer	TG 209 F3	NETZSCH	EC-180	2019.01.04
Gas chromatography and mass spectrometry	GCMS7890B-5977A	Agilent	EC-152	2019.08.01
Energy dispersive X-ray fluorescence spectrometer	EDX 1800B	Skyray	EC-103	2018.12.05

Test result:

Specimen No.	9-Pocket lining			
Category	Substance	CAS No.	Content (%)	Conclusion
Polymer	Ethylene-vinyl acetate copolymer	24937-78-8	98.48	Information only
Filler	Titanium oxide	1317-80-2	1.52	

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



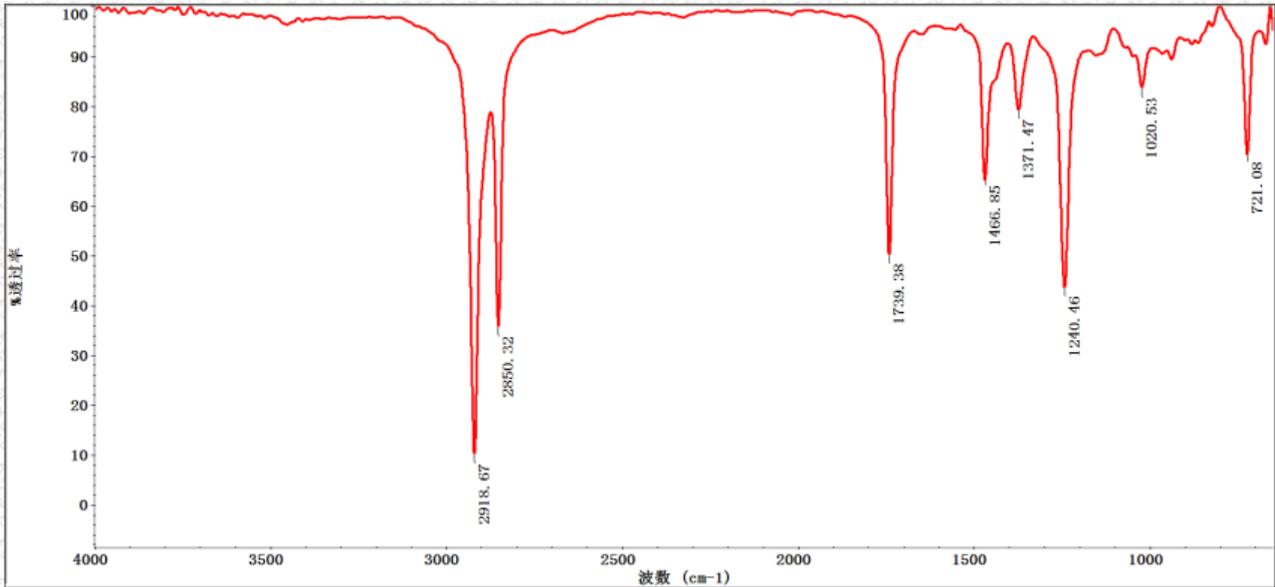


DETAILED RESULTS:

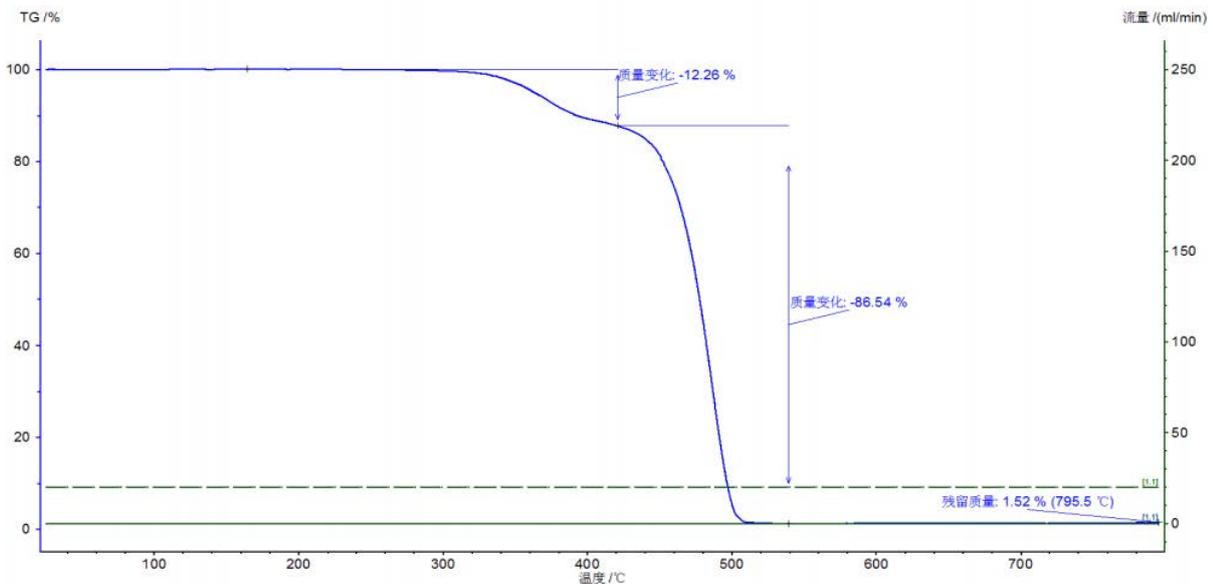
Quantitative Composition Analysis

Test result:

Sample FTIR spectrum



Sample TG image



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



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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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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



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Grey foam	Filler of shoulder pad
2	Black plastic	Lobster clasp of strap
3	Light silver metal	Lobster clasp of strap
4	Transparent soft plastic	Inner
5	Light silver metal	Zipper head
6	Grey plastic	Zipper teeth
7	Black plastic	Edge
8	Black synthetic leather	Raw material (bottom)
9	Black bag	Finished product
10	Black fabric	Raw material for shell bottom





SAMPLE PHOTO:





SAMPLE PHOTO:



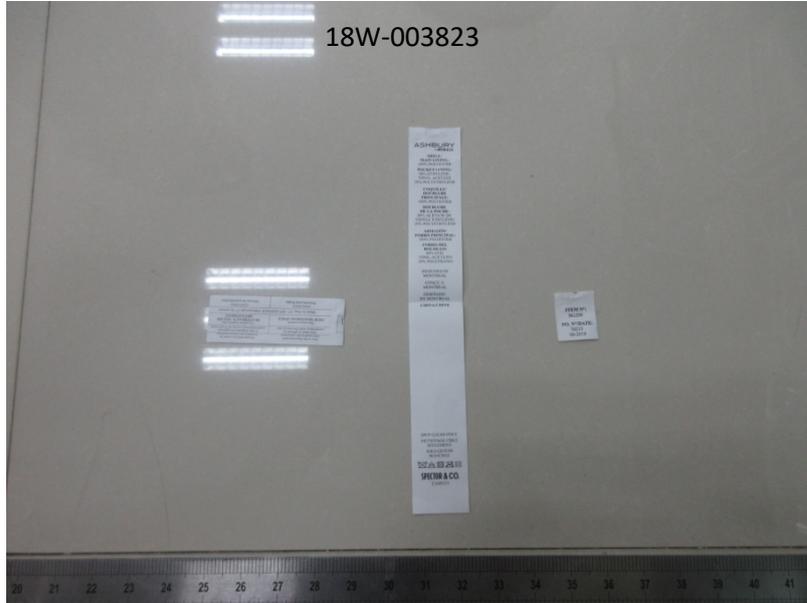


SAMPLE PHOTO:





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-End Report-

