



Test Report

No.: SL118002694279TX

Date: Aug 10, 2018

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The following sample was submitted and identified on behalf of the buyer as

OVERALL RATING	
X	PASS
	FAIL
	CONDITIONAL PASS

Canada Goose			
<b>VENDOR NAME :</b>	Toray Sakai Weaving & Dyeing (Nantong) Co. Ltd		
<b>SAMPLE DESCRIPTION :</b>	One sample of woven 87% nylon 13% spandex 20D nylon single layer TS2020DPS cutting in #61 black. (Supplier Item Code: #2305)		
<b>END USE:</b>	/		
<b>COLOR :</b>	#61 Black		
<b>FABRIC/GARMENT STYLE :</b>	#2305	<b>PO:</b>	76034
<b>SEASON :</b>	FW19	<b>AGE GROUP LABELLING:</b>	Adult
<b>SUPPLIER # :</b>	Seveki	<b>COUNTRY OF DESTINATION:</b>	Russia
<b>MFG:</b>	/	<b>FABRIC WIDTH</b>	/
<b>CLIENT CONTACT :</b>	/	<b>FABRIC WEIGHT :</b>	63g/sqm
<b>FIBER CONTENT :</b>	87% nylon 13% spandex	<b>COUNTRY OF ORIGIN</b>	China
<b>SAMPLE RECEIVING DATE :</b>	Aug 02, 2018	<b>TEST PERFORMING DATE :</b>	Aug 02, 2018 – Aug 10, 2018
<b>Applicant's Submitted Care Instruction:</b>	M/C wash 80F (cold) w/4lbs total load, normal cycle, tumble dry delicate <140F (low heat) Dry clean		

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TEST	PASS	CONDITIONAL PASS	FAIL	REMARKS
Dimensional Stability To Washing	X			
Appearance After Laundering	X			
Dimensional Stability To Drycleaning	X			
Appearance After Drycleaning	X			
Colour Fastness To Washing	X			
Colour Fastness To Drycleaning	X			
Colour Fastness To Crocking	X			
Colour Fastness To Light	X			
Colour Fastness To Water	X			
Colour Fastness To Perspiration	X			
Colour Fastness To Rubbing	X			
Downproofness to Feather and Down (By Impact Test)	X			
Abrasion Resistance	X			
Tearing Strength	X			
Tensile Strength	X			
Water Resistance	X			
Water Repellency	X			
Air Permeability Of Textile Fabrics	X			
Fiber Content	X			
Flammability Test of Clothing Textiles (US)	X			
Flammability Test of Textiles (Canada)	X			
pH Value in Textile	X			

**PASS** = Meets Client's Performance Standard.

**CONDITIONAL PASS** = Meets Client performance standard with the condition that the recommended changes are made or with Client approval.

**FAIL** = Fails to meet Client's Performance Standard

Signed for and on behalf of  
SGS Hong Kong Ltd.



Chau Ho Yan, Amy  
Assistant Technical Manager

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**Test Results:**

**Dimensional Stability To Washing**

(AATCC 135-2018 Option 1 Test No. (1)IIA(ii) ; Machine wash at 80 degree F with 1.8 kg total loading (Type 3 ballast + specimen) and 66 ± 1g of 1993 AATCC Standard Reference detergent, normal cycle, tumble dry delicate less than 140±10 degree F)

		<u>Specified Requirement</u>
<u>After 1 wash</u>		
Lengthwise (%)	-1.2	/
Widthwise (%)	-1.6	
<u>After 3 wash</u>		
Lengthwise (%)	-2.0	±2.5%
Widthwise (%)	-2.4	

Remarks : (+) Means extension  
 (-) Means shrinkage

**Appearance After Laundering**

(Washing procedures: same as shrinkage)

After 15 wash

Observation on washed sample:

- |                         |                       |
|-------------------------|-----------------------|
| 1. Colour change        | No significant change |
| 2. Appearance of fabric | No significant change |

General appearance of washed sample is satisfactory.

**Dimensional Stability To Drycleaning**

(Commercial Dryclean)

		<u>Specified Requirement</u>
<u>After 1 dryclean</u>		
Lengthwise (%)	-0.4	±2.5%
Widthwise (%)	-1.2	

Remarks : (+) Means extension  
 (-) Means shrinkage

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### Appearance After Drycleaning

(Commercial Dryclean)

#### After 10 dryclean

Observation on drycleaned sample:

- |                         |                       |
|-------------------------|-----------------------|
| 1. Colour change        | No significant change |
| 2. Appearance of fabric | No significant change |

General appearance of drycleaned sample is satisfactory.

### Colour Fastness To Washing

(Ref. AATCC 61-2013; Test No. 2A, 45 min. Mechanical wash at 105 degree F in 0.15% 1993 AATCC Standard Reference detergent 'WOB' solution with 50 steel balls)

		<u>Specified Requirement</u>
Change in shade	4.5	Min. 4.5
Staining on multifibre stripe		
Acetate	4.5	Min. 4.0
Cotton	4.5	
Nylon	4.5	
Polyester	4.5	
Acrylic	4.5	
Wool	4.5	

### Colour Fastness To Drycleaning (AATCC 132-2013)

		<u>Specified Requirement</u>
Change in shade	4.5	Min. 4.5
Staining on multifibre stripe		
Acetate	4.5	Min. 4.0
Cotton	4.5	
Nylon	4.5	
Polyester	4.5	
Acrylic	4.5	
Wool	4.5	

### Colour Fastness To Crocking (AATCC 8-2016)

		<u>Specified Requirement</u>
Dry staining	4.5	Min. 4.5
Wet staining	4.5	Min. 4.0

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### Colour Fastness To Light (AATCC 16.3-2014 Option 3; Xenon-Arc Lamp)

		<u>Specified Requirement</u>
After 20 'AATCC' Fading Unit		
Class	4.5	>L4(GS 4-5) for 20 hours

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

### Colour Fastness To Water (GB/T 5713-1997)

		<u>Specified Requirement</u>
Change in shade	4-5	Min. 3
Staining on single-fibre		
Nylon	4-5	Min. 3
Wool	4-5	

### Colour Fastness To Perspiration (GB/T 3922:2013)

		<u>Specified Requirement</u>
<u>Acidic</u>		
Change in shade	4-5	Min. 3
Staining on single-fibre		
Nylon	4-5	Min. 3
Wool	4-5	
<u>Alkaline</u>		
Change in shade	4-5	Min. 3
Staining on single-fibre		
Nylon	4-5	Min. 3
Wool	4-5	

### Colour Fastness To Rubbing

(GB/T 3920-2008; Size of rubbing finger: 16mm dia.)

		<u>Specified Requirement</u>
<u>Direction - Longitudinal</u>		
Dry staining	4-5	Min. 3
<u>Direction - Lateral</u>		
Dry staining	4-5	Min. 3

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

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### Downproofness to Feather and Down (By Impact Test)

(FTMS 191, Method 5530 modified, Test Pillow Size: 20 cm x 30 cm)

#### Filling Description:

Filling content: 80% Down; 20% Feather

Filling weight: 35g

#### As received

Sample:	Number of particles found protruding						Total particles protruding	No of loose particles that escaped from product	Total no of protruding and escaped particles	Final Rating
	Fabric		Stitch Lines		Seams					
	Shell	Inner	Shell	Inner	Shell	Inner				
Result	0	N/A	N/A	N/A	N/A	N/A	0	0	0	5
Grand Total	0		N/A		N/A					

Buyer Requirement: Grade 5 in Downproofness Rating

Conclusion: Pass

#### After 1 wash

Sample:	Number of particles found protruding						Total particles protruding	No of loose particles that escaped from product	Total no of protruding and escaped particles	Final Rating
	Fabric		Stitch Lines		Seams					
	Shell	Inner	Shell	Inner	Shell	Inner				
Result	0	N/A	N/A	N/A	N/A	N/A	0	0	0	5
Grand Total	0		N/A		N/A					

Buyer Requirement: Grade 5 in Downproofness Rating

Conclusion: Pass

#### After 5 wash

Sample:	Number of particles found protruding						Total particles protruding	No of loose particles that escaped from product	Total no of protruding and escaped particles	Final Rating
	Fabric		Stitch Lines		Seams					
	Shell	Inner	Shell	Inner	Shell	Inner				
Result	0	N/A	N/A	N/A	N/A	N/A	0	0	0	5
Grand Total	0		N/A		N/A					

Buyer Requirement: Grade 5 in Downproofness Rating

Conclusion: Pass

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Note:

1.	Downproofness Rating	Number of total particles escaped or protruding
	5	0 – 5
	4	6 - 11
	3	12 - 22
	2	23 - 33
	1	≥34

2. Washing procedure :  
 (AATCC 135-2018 Option 1 Test No. (1)IIA(ii) ; Machine wash at 80 degree F with 1.8 kg total loading (Type 3 ballast + specimen) and 66 ± 1g of 1993 AATCC Standard Reference detergent, normal cycle, tumble dry delicate less than 140±10 degree F)

Remark:

- Escaped / protruding elements (≥4mm) will be recorded
- N/A: No stitch lines on the test specimen.

**Abrasion Resistance**

(ASTM D4966-2012e1 Option 1/ Option 2; Martindale Wear & Abrasion Tester ; 9 kPa Pressure)

		<u>Requirement</u>
End point (rubs)	Exceeds 10000	Exceeds 10000
Colour change at 5000 rubs (rating)	4-5	Min. 3-4
Pilling Rating after 5000 rubs	5.0	/
Colour change at 20000 rubs (rating)	4-5	Min. 3
Pilling Rating after 20000 rubs	5.0	/

Remark: Pilling Rating is assessed based on ASTM D4970 Pilling Rating Scale

Pilling Rating (ASTM D4970)

- No pilling
- Slight pilling
- Moderate pilling
- Severe pilling
- Very severe pilling

# Pilling Rating is additional requested by clients

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### Tearing Strength (ASTM D2261-2017; Tongue Tear)

Average 5 highest peak force:

		<u>Requirement</u>
Warp (N)	13.7	Min. 8.9 N
Weft (N)	11.5	Min. 8.9 N

### Tensile Strength (ASTM D5034-2009(2013) – CRE – 1” grab)

		<u>Requirement</u>
Warp (N)	448.3	Min. 111 N
Weft (N)	370.9	Min. 111 N

### Water Resistance

(Ref. AATCC 35-2013; Rain Test, 600mm head pressure, 2 minutes impact)

	<u>Specimen 1</u>	<u>Specimen 2</u>	<u>Specimen 3</u>	<u>U.S. Custom's Requirement</u>
The weight of the blotter gained (g) :	0.0	0.0	0.0	1.0 g max.

### Water Repellency

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

		<u>Specified Requirement</u>
<u>As received</u>		
Rating		
Individual reading 1	100	Min 100
Individual reading 2	100	
Individual reading 3	100	
<u>After 20 wash *</u>		
Rating		Min 80
Individual reading 1	90	
Individual reading 2	90	
Individual reading 3	90	
<u>After 20 Dryclean *</u>		
Rating		Min 80
Individual reading 1	80	
Individual reading 2	80	
Individual reading 3	80	

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Remarks : Nomenclature for rating :  
 100 – No sticking or wetting of the specimen face  
 90 – Slight random sticking or wetting of the 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

\* Washing procedures: Same as shrinkage  
 \*\*Drycleaning procedures: Same as shrinkage

**Air Permeability Of Textile Fabrics**

(ASTM D737-2018;Textest FX3300 Air Permeability Tester III)

Test pressure : 125 pa  
 Test area : 38 sq.cm.

Individual reading (Unit: cm <sup>3</sup> /cm <sup>2</sup> /s)	<u>Specified Requirement</u>
1. 0.569	
2. 0.598	
3. 0.565	
4. 0.564	
5. 0.505	
6. 0.579	
7. 0.538	
8. 0.554	
9. 0.497	
10. 0.568	
Commentary : -	
Average : 0.554	Max. 0.8 cm <sup>3</sup> /cm <sup>2</sup> /s
Minimum : 0.497	
Maximum : 0.598	
CV% : 5.75	

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## Fiber Content

(AATCC 20A-2017; based on moisture regain weight)

### Specified Requirement

Nylon	87.1%	87%±3%
Spandex	12.9%	13%±3%

### Note:

( 1 ) Based on ASTM D1909-13, moisture regain of Nylon 4.5%, Spandex 1.3%

## Flammability Test of Clothing Textiles (16 CFR Part 1610 - October 20,2008 Edition)

Sample :  
Fabric Surface : Smooth  
Test Specimen Direction : Length

	As Received			After Dry-cleaning and Laundering*	
	Flame Spread (sec.)	Burn Code		Flame Spread (sec.)	Burn Code
(1)	6.6	--	(1)	6.7	--
(2)	7.1	--	(2)	7.5	--
(3)	6.4	--	(3)	7.1	--
(4)	7.0	--	(4)	7.5	--
(5)	7.0	--	(5)	7.4	--
Avg.	6.8		Avg.	7.2	

Flammability Classification : Class 1

Remarks : Class 1 Normal Flammability  
Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

\* Drycleaning / Laundering procedure is according to 16 CFR 1610:6(b).

### Burn Code Description:

\_\_ sec. = Actual burn time measured by the timing device in 0.0 seconds.

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### Flammability Test of Textiles (CAN/CGSB-4.2 NO.27.5-2008)

Fabric Surface : Smooth  
Preliminary Testing : Length 6.6 sec BB Width 7.0 sec BB

Test sample direction performance: Length

Sample:

	<u>Original State</u>			<u>After Drycleaning &amp; Washing *</u>		<u>Requirement</u>
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>		<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(1)	6.6	BB	(1)	7.4	BB	
(2)	7.1	BB	(2)	7.1	BB	
(3)	6.4	BB	(3)	7.6	BB	> 3.5 sec
(4)	7.0	BB	(4)	7.4	BB	
(5)	7.0	BB	(5)	7.5	BB	
Avg.	6.8		Avg.	7.4		

#### Burning Codes

BB = Base Burns

#### Cleaning procedure

\* Washing and dry cleaning in accordance with CAN/CGSB-4.2 No.30.3-94

#### Comment

The submitted sample complies with the flammability requirements for general textile products (other than children's sleepwear) under clause 3, item (1) of Textile Flammability Regulations (SOR/2016-194) of Canada.

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## Component List / List of Materials

Sample No.	Material No.	Component	Material	Color	Fiber Type *	Remark
/	1	Fabric	Textile	Black	NA	/

### pH Value in Textile

Test Method: According to AATCC 81-2012

	<u>CAS-No.</u>	<u>Result</u>
pH value	--	<u>1</u> 7.1
<b>Conclusion</b>	--	<b>PASS</b>

Remark: \*= Exceed the limit

#### Requirement:

**White Fabric:** 5.5 – 6.5

**All Other Colours:** 4.0 – 7.5



\*\*\* End of Report \*\*\*

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**Laboratory Summary Information for Certificate of Compliance (COC)**

I (we) hereby confirm based on the test results in this report, that the product or components described below was tested and comply with the applicable rules, bans, regulations and standards under the CPSIA (Consumer Product Safety Improvement Act) or any other Act enforced by the CPSC and checked on the list below.

Product/Component description provided by submitter

Sample description : One sample of woven 87% nylon 13% spandex 20D nylon single layer TS2020DPS cutting in #61 black.  
Color / Location : #61 Black  
Specification No. : /  
Part No. : /  
Style / Item No. : #2305  
P.O. / Ref. No. : 76034  
Manufacturer : /  
Supplier : /

**Safety Regulation Citations**

- Wearing Apparel Flammability 16 CFR 1610
- Flammability Standard for Children's Sleepwear 16 CFR 1615 and 1616
- Small Parts 16 C.F.R. Part 1501 and 1500.50 - 53
- Sharp Points and Edges 16 CFR 1500.48 and 49
- Lead Paint Ban 16 CFR. 1303
- Lead in substrate CPSIA Section 101
- Phthalates CPSIA Section 108
- Flammability of Carpets and Rugs (16 CFR 1630 and 1631)
- Flammability of Mattress Pads (16 CFR 1632)
- Standard for the flammability of vinyl plastic film (16 CFR 1611)

Date of testing:

Date of TP testing: Aug 10, 2018

TPCA (Third Party Conformity Assessment Body):

Place of TP testing: Hong Kong

Test Report Number: SL118002694279TX

TPCA name: SGS (Hong Kong) Limited

TPCA telephone number: 852-2334 4481

TPCA address: 1/F, 4/F, 5/F & Unit 301-4, 307-11, 3/F, On Wui Centre, 25 Lok Yip Road, Fanling, NT, Hong Kong

The information on this sheet is ONLY applicable for the product tested in this report. This document cannot be considered as a COC but only as a traceability tool in order for manufacturer/importer to prepare their COC.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.