



**COSTCO WHOLESALE**  
**COMPLIANCE, QUALITY and**  
**PERFORMANCE TEST**  
**PROTOCOL SL-2307**  
**SOFTLINES APPAREL**

**IDFL #: 20-306350**

Date: 9-Apr-2020

**EVALUATION REPORT - Market: Canada**

DOWN AND FEATHER TESTING					
Test Property	Test Method	Based on expected Down label: <b>80%</b>		Results	Rating
Content Analysis	IDFB 3	Down Cluster	Min 60.0%	84.5%	Pass
		Down Fibre		3.1%	
		Feather Fibre		1.6%	
		Total Fibre	Max 36.0%	4.7%	Pass
		Waterfowl Feathers ≤ 60 mm	Max 40.0%	10.3%	Pass
		Waterfowl Feathers > 60 mm	Max 20.0%	0.0%	Pass
		Broken / Damaged Feathers		0.1%	
		Quill		0.0%	
		Landfowl Residue		0.3%	
		Landfowl and Residue	Max 5.0%	0.1%	Pass
<b>TOTAL</b>				<b>100.0%</b>	
Species Identification	IDFB 12	Goose Down		0%	
		Duck Down		100%	
		Goose Feathers		0%	
		Duck Feathers		100%	
<b>TOTAL GOOSE</b>		Claim: DUCK	Min 90%	0%	Pass
<b>TOTAL DUCK</b>			Duck	100%	
Color White	IDFB 16	Claim: White	Max Dark 1.0%	0.36%	Pass
Fill Power	IDFB 10B	(in <sup>3</sup> / 30g)	Max -5% of 600	700	Pass
Turbidity	IDFB 11	(Others, JP, TW, KOR, AUS)	Min 500	1000	Pass
Oxygen Number	IDFB 7	(Others, TW, KOR, AUS)	Min 4.8	1.6	Pass
Penetration resistance of cloth-Tumbling method	IDFL 20-1 (Fabric) IDFL 20-2 (Bedding) IDFL 20-3 (Garments) IDFL 20-4 (Channeled Fabric)	Before Laundering	Min 4	N/A	N/A
		After 1x Laundering	Min 4	N/A	N/A
Net Fill Weight	IDFB 17	Expected Fill Weight (g) N/A	Min N/A	N/A	N/A
IDFL Labeling Suggestion for Canadian Market:		Provincial Label: Duck Down Federal Label: Duck Down OR: 80% duck down, 20% duck feathers			

Comments:

Approved by

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# Test Report

Costco Apparel (CAN) SM315 80%  
Washed White Duck Down (Texcote  
Nano DWR)

**IDFL # 20-306350**

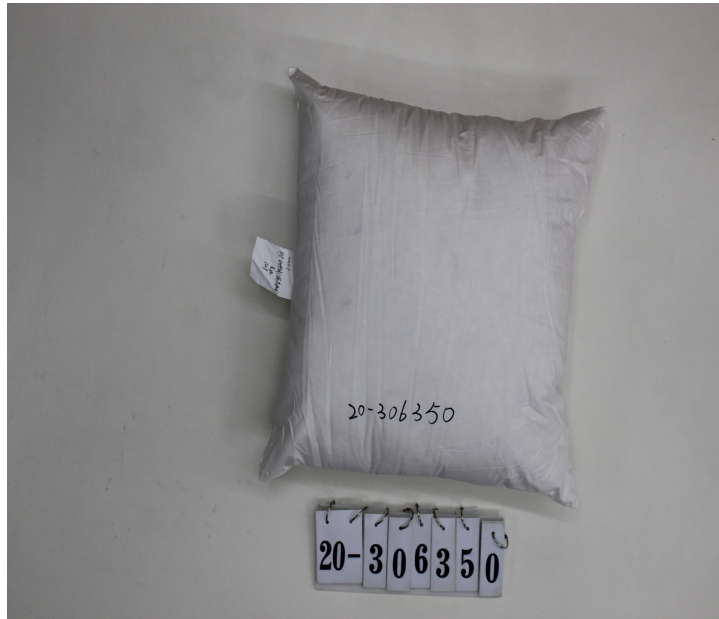
Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

**Michael Mao**  
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michael@samsungdown.com  
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3-Day

**Arrival Date:** Fri 3 April 2020  
**Report Date:** Thu 9 April 2020

**Sample Type:** Plumage  
**Shipped By:** SF 1088351409717  
**Sample Identification:** Costco Apparel (CAN)  
SM315 80% Washed White Duck Down (Texcote Nano DWR)  
BRAND NAME: RUDSAK  
STYLE NO.: COSTCO 4120508/ 4119511/ 4119504/ 7120500



<sup>1</sup> CNAS Accredited

<sup>2</sup> CMA Accredited

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Washed White Duck Down (Texcote  
Nano DWR)

**IDFL # 20-306350**

Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

## Test Orders Summary

Test	Test Component	Result	Expected Value
<b>Content (Modified for Canada Evaluation) IDFB Part 3 2013</b>	Down Clusters	84.5%	60.0%
<b>Species Down &amp; Feathers IDFB Part 12 2013</b>	Total Goose	0%	
	Total Duck	100%	
<b>Color Separation IDFB Part 16 2013</b>	Dark Percentage	0.36%	
<b>Steam Fill Power IDFB Part 10-B 2015</b>	Final Fill Power Volume	700 in <sup>3</sup> /30g	600 in <sup>3</sup> /30g
<b>Oxygen IDFB Part 7 2013</b>	Oxygen	1.6 mg/100g	
<b>Turbidity IDFB Part 11 2013</b>	Turbidity Glass Tube	1000 mm	
<b>Fat and Oil IDFB Part 4 2013</b>	Fat and Oil	1.2%	
<b>Moisture IDFB Part 5 2013</b>	Moisture Content	9.5%	
<b>Odor IDFL 30 2018</b>	Actual Lab Test	4	

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**IDFL # 20-306350**

Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

## Content (Modified for Canada Evaluation) IDFB Part 3 2013

Down Clusters	84.5%
Down Fibers	3.1%
Waterfowl Feather Fibers	1.6%
Waterfowl Feathers	10.3%
Waterfowl Feathers > 6 cm	0.0%
Broken and Damaged Waterfowl Feathers	0.1%
Quill	0.0%
Landfowl	0.3%
Residue	0.1%
Total	100.0%

### Result(s) Used for Evaluation

<b>Waterfowl Feather Fibers and Down Fibers</b>	<b>4.7%</b>
Waterfowl Feather Fibers (1.6%)	
+ Down Fibers (3.1%)	
<b>Waterfowl Feathers &amp; Fibers and Down Clusters &amp; Fibers</b>	<b>99.6%</b>
Waterfowl Feathers (10.3%)	
+ Waterfowl Feathers > 6 cm (0.0%)	
+ Broken and Damaged Waterfowl Feathers (0.1%)	
+ Waterfowl Feather Fibers (1.6%)	
+ Down Clusters (84.5%)	
+ Down Fibers (3.1%)	
<b>Residue and Landfowl</b>	<b>0.4%</b>
Residue (0.1%)	
+ Landfowl (0.3%)	

## Species Down & Feathers IDFB Part 12 2013<sup>1, 2</sup>

Goose Down	0%
Duck Down	100%
Goose Feathers	0%
Duck Feathers	100%
Total Goose	0%
Total Duck	100%

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**IDFL # 20-306350**  
Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

## Color Separation IDFB Part 16 2013<sup>1, 2</sup>

White Percentage	99.64%
Dark Percentage	0.36%
Total	100.00%

## Steam Fill Power IDFB Part 10-B 2015<sup>1, 2</sup>

Volume 700 in<sup>3</sup>/30g

## Oxygen IDFB Part 7 2013<sup>1, 2</sup>

Oxygen 1.6 mg/100g

## Turbidity IDFB Part 11 2013<sup>1, 2</sup>

Turbidity Glass Tube	1000 mm
Turbidity NTU	0.83 NTU

## Fat and Oil IDFB Part 4 2013

Fat and Oil 1.2%

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**IDFL # 20-306350**

Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

## Moisture IDFB Part 5 2013<sup>1, 2</sup>

Moisture Content **9.5%**

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**IDFL # 20-306350**

Zhejiang Samsung Down Co., Ltd  
Thu 9 April 2020

## Odor IDFL 30 2018

### CHECK-IN

<b>1. ODOR UPON ARRIVAL :</b> Odor upon opening of shipping box	Normal
<b>2. INITIAL ODOR of SAMPLE :</b> Odor of sample after removal from shipping box and any packaging material (such as plastic, etc.)	Normal
<b>3. LATER ODOR of SAMPLE :</b> (24 hours after removal from packaging)	N/A
<b>4. ODOR of PACKAGING :</b> (Any odor that might exist in packaging)	Normal

### OPENING ROOM

<b>5. INITIAL ODOR - FILL MATERIAL :</b> Odor of fill material immediately after cutting open samples	Normal
<b>6. LATER ODOR - FILL MATERIAL :</b> Odor after leaving fill material in a screened box for 24 hours	N/A

### LAB TEST

<b>7. ACTUAL LAB TEST :</b> (1-5 'Nose' Lab Test)	4
<b>8. OTHER COMMENTS :</b>	N/A
<b>9. CONCLUSION :</b>	N/A

### Rating Scale

1	Very Bad
2	Bad/Strange
3	Borderline
4	Normal Odor
5	Above

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# DWR Test Report

Zhejiang Samsung Down Co., Ltd  
Michael Mao  
Michael@samsungdown.com



## Sample Info – Treated

IDFL #: 20-306350  
Sample ID: Costco Apparel (CAN)  
SM315 80% Washed White Duck Down (Texcote Nano DWR)  
BRAND NAME: RUDSAK  
STYLE NO.: COSTCO 4120508/ 4119511/ 4119504/ 7120500

Date: 9-Apr-2020

Expected Results		Test Results	
Content:	80.0%	Content:	84.5%
Species:	Duck	Species:	Duck
Fill Power:	600in <sup>3</sup> /30g	Fill Power:	700in <sup>3</sup> /30g
Fat & Oil	N/A	Fat & Oil	1.2%

Approved By:



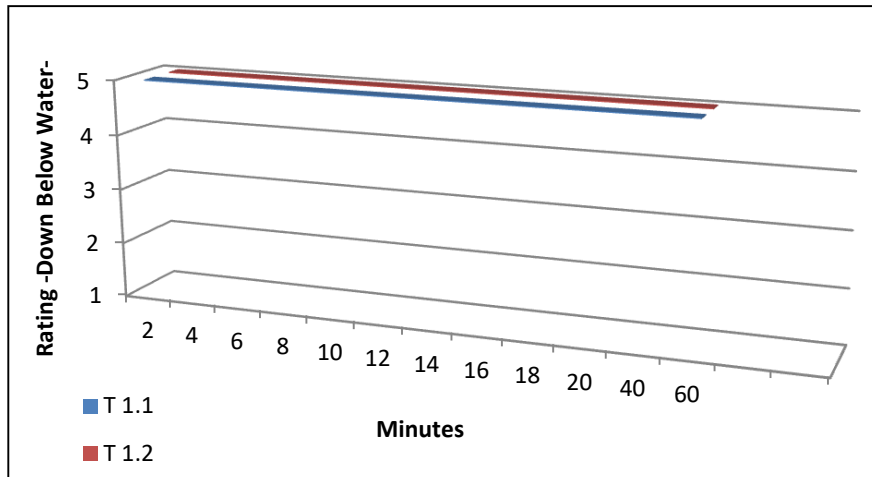


# DWR Test Report

Zhejiang Samsung Down Co., Ltd  
Michael Mao  
Michael@samsungdown.com

## IDFB 18-A

Hydrophobic Shake Test  
Measurement Interval - 2 Minutes



5 Down Completely Above Water  
1 Down Completely Under Water

Minutes	T 1.1	T 1.2
2	5	5
4	5	5
6	5	5
8	5	5
10	5	5
12	5	5
14	5	5
16	5	5
18	5	5
20	5	5
40	5	5
60	5	5

**Treated material remains at rating 5 after: 60 minutes**



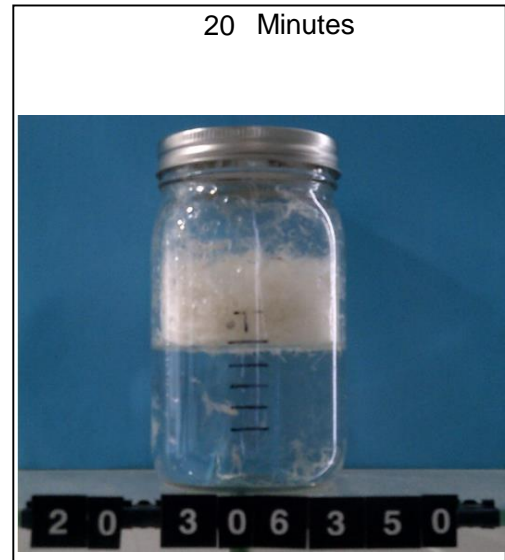
# DWR Test Report

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**IDFB 18-A** (Picture References)  
Hydrophobic Shake Test  
Measured Time Interval – 2 Minutes

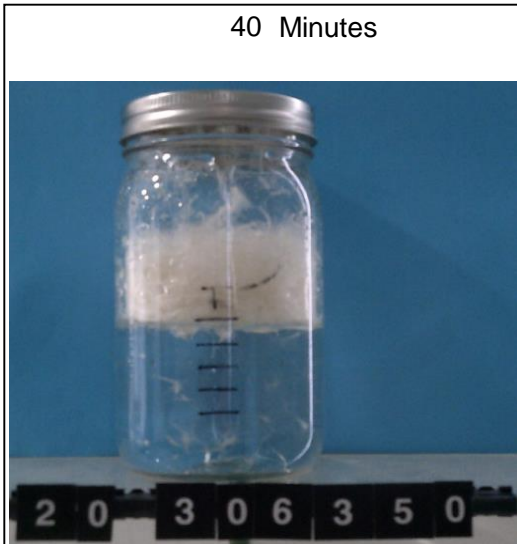


Rating: 5

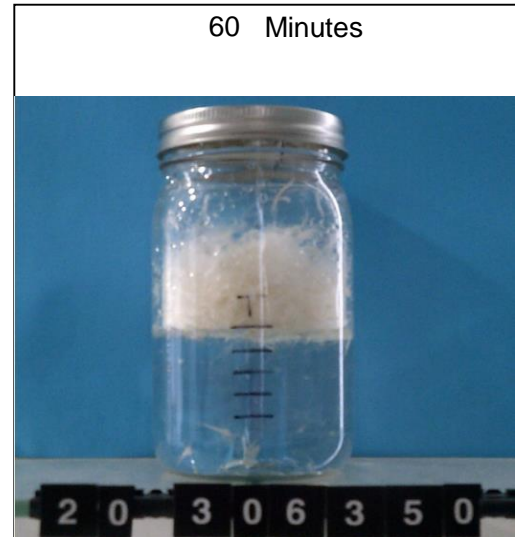


Rating: 5

**IDFB 18-A**  
Hydrophobic Shake Test  
Measured Time Interval – 2 Minutes



Rating: 5



Rating: 5

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