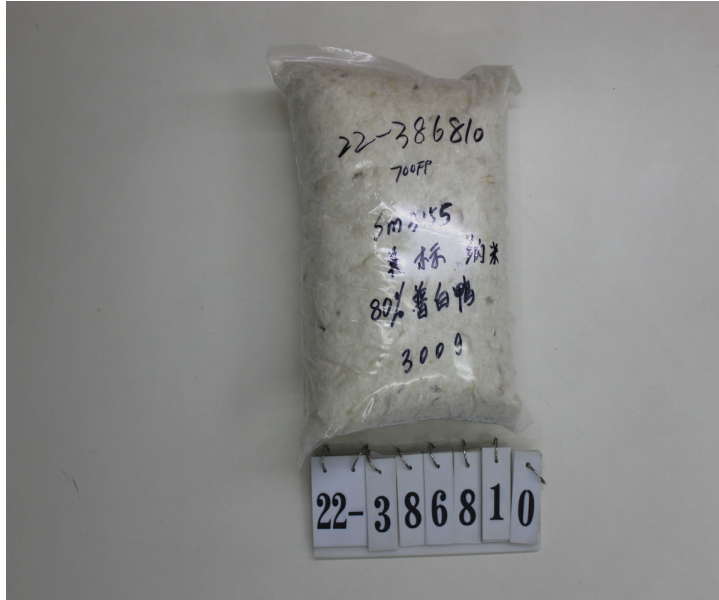


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Arrival Date: 14 Jan 2022
Testing Dates: From 14 Jan 2022
to 26 Jan 2022
Report Date: 26 Jan 2022

Sample Type: Plumage
Shipped By: SF 1135568312671
Sample Identification: SM315S 80% Washed White Duck Down (Texcote Nano DWR),
BRAND NAME: RUDSAK
STYLE NO.: COSTCO 4122500, 4122501, 4122504
ITEM NO.: 1628636, 1628638, 1628640, 1628642, 1628644, 1628645, 1628647, 1628649,
1628650, 1628651, 1628652, 1628656, 1628657, 1628693, 1628695, 1628699, 1628710,
1628712, 1628732, 1628746, 1628747, 1628749, 1628750, 1628752, 1628755, 1628758,
1628760, 1628763, 1628764, 1628765



¹ CNAS Accredited

Tested according to IDFB 2020

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Test Orders Summary

Test	Test Component	Result	Expected Value
Content IDFB Part 3 2013 (Modified for Canada)	Down Clusters	88.7%	60.0%
Species Down & Feathers IDFB Part 12 2020	Total Goose	0%	-
	Total Duck	100%	-
Color Separation IDFB Part 16 2013	Dark Percentage	0.86%	-
Steam Fill Power IDFB Part 10-B 2020	Final Fill Power Volume	770 in ³ /30g	700 in ³ /30g
Oxygen IDFB Part 7 2013	Oxygen	1.6 mg/100g	-
Turbidity IDFB Part 11 2013	Turbidity Glass Tube	1000 mm	-
Fat and Oil IDFB Part 4 2013	Fat and Oil	1.2%	-
Moisture IDFB Part 5 2013	Moisture Content	8.8%	-
Odor Evaluation IDFL 30 2018	Actual Lab Test	4	-

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Content IDFB Part 3 2013 (Modified for Canada)

Down Clusters	88.7%
Down Fibers	3.7%
Waterfowl Feather Fibers	2.2%
Waterfowl Feathers	4.9%
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

Waterfowl Feather Fibers and Down Fibers	5.9%
Waterfowl Feather Fibers (2.2%)	
+ Down Fibers (3.7%)	
Waterfowl Feathers & Fibers and Down Clusters & Fibers	99.6%
Waterfowl Feathers (4.9%)	
+ Waterfowl Feathers > 6 cm (0.0%)	
+ Broken and Damaged Waterfowl Feathers (0.1%)	
+ Waterfowl Feather Fibers (2.2%)	
+ Down Clusters (88.7%)	
+ Down Fibers (3.7%)	
Residue and Landfowl	0.4%
Residue (0.1%)	
+ Landfowl (0.3%)	

Species Down & Feathers IDFB Part 12 2020¹

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

Color Separation IDFB Part 16 2013¹

White Percentage	99.14%
Dark Percentage	0.86%
Total	100.00%

Steam Fill Power IDFB Part 10-B 2020¹

Volume	770 in ³ /30g
--------	--------------------------

Oxygen IDFB Part 7 2013¹

Oxygen	1.6 mg/100g
--------	-------------

¹ CNAS Accredited

Tested according to IDFB 2020

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Test Report

SM315S 80% Washed White Duck Down

IDFL # 22-386810

Zhejiang Samsung Down Co., Ltd.
26 Jan 2022

Turbidity IDFB Part 11 2013¹

Turbidity Glass Tube 1000 mm

Turbidity NTU 0.46 NTU

Fat and Oil IDFB Part 4 2013

Fat and Oil 1.2%

Tested by the following locations:

CIQ - Down & Feather Testing Lab Xiaoshan Zhejiang Imp. & Exp. Comm Insp CMA Certificate No. : 170011122252

Moisture IDFB Part 5 2013¹

Moisture Content 8.8%

Odor Evaluation IDFL 30 2018

CHECK-IN

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

OPENING ROOM

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

LAB TEST

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

Rating Scale

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

¹ CNAS Accredited

Tested according to IDFB 2020

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Sample 3 of 6

Costco Apparel (CAN) Costco

Evaluation Component	Test	Test Component	Requirement	Result	Finding
80% Down / 20% Waterfowl Feather	Content IDFB Part 3 2013 (Modified for Canada)	Down Clusters	Min 60 %	88.7 %	Pass
		Total Waterfowl Feather Fibers and Down Fibers	Max 36 %	5.9 %	Pass
		Large Waterfowl Feathers	Max 20 %	0.0 %	Pass
		Residue and Landfowl	Max 5 %	0.4 %	Pass
Basic	Oxygen IDFB Part 7 2013	Oxygen Number	Max 4.8 mg/100g	1.6 mg/100g	Pass
	Turbidity IDFB Part 11 2013	Turbidity	Min 500 mm	1000 mm	Pass
Fill Power Claim	Steam Fill Power IDFB Part 10-B 2020	Fill Power	Min 700.0 in ³ /30g -5%	770 in³/30g	Pass
Total Duck	Species Down & Feathers IDFB Part 12 2020	Total Duck	Min 90 %	100 %	Pass
White Color (Dark plumage)	Color Separation IDFB Part 16 2013	White Color (Dark Plumage)	Max 1 %	0.86 %	Pass

Suggested Label based on Costco requirements

80% Duck Down
20% Duck Feathers

End of Report

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Sample 3 of 6



DWR Test Report

Zhejiang Samsung Down Co., Ltd.

Michael Mao

michael@samsungdown.com



Sample Info – Treated

IDFL #: 22-386810

SM315S 80% Washed White Duck Down (Texcote Nano DWR),

BRAND NAME: RUWSAK

STYLE NO.: COSTCO 4122500, 4122501, 4122504

ITEM NO.: 1628636, 1628638, 1628640, 1628642,

Sample ID: 1628644, 1628645, 1628647, 1628649,

1628650, 1628651, 1628652, 1628656, 1628657,

1628693, 1628695, 1628699, 1628710,

1628712, 1628732, 1628746, 1628747, 1628749,

1628750, 1628752, 1628755, 1628758,

1628760, 1628763, 1628764, 1628765

Date: 26-Jan-2022

Approved By:

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2022/1/26

Page 1 of 3



DWR Test Report

Zhejiang Samsung Down Co., Ltd.

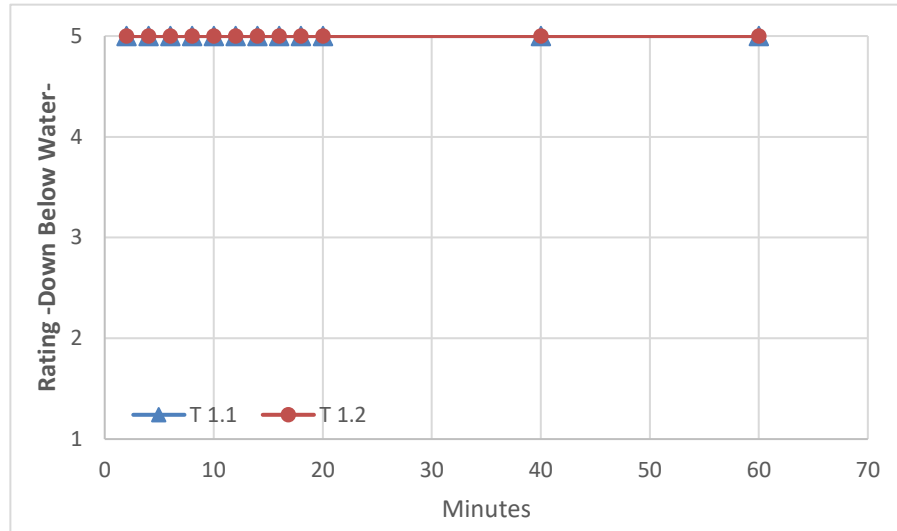
Michael Mao

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 a rating of 5 after an average of: 60 minutes

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DWR Test Report

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

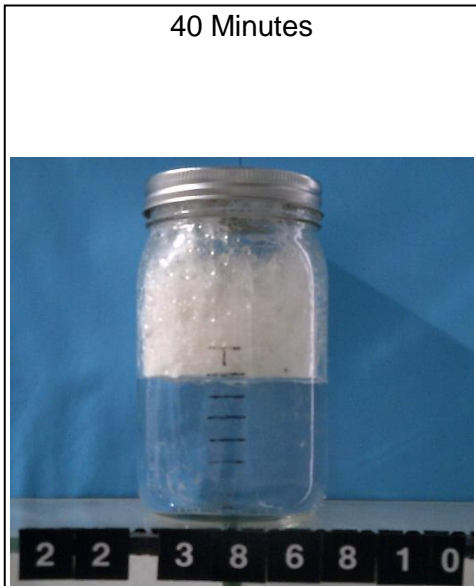


Rating 5



Rating 5

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



Rating 5



Rating 5

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