

## Test Report

washed white duck down 15%

**IDFL # 20-310301**

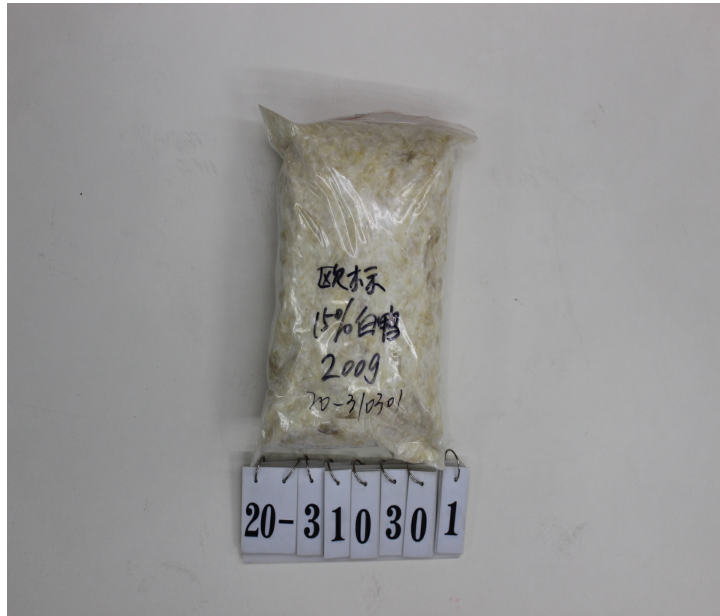
Zhejiang Samsung Down Co., Ltd  
Wed 10 June 2020

Linda Shen  
Zhejiang Samsung Down Co., Ltd  
No.288, Xiaoshao East Road,  
Xintang Street,  
Xiaoshan District,  
Hangzhou, Zhejiang 311201  
China

linda@samsungdown.com  
3-Day

Arrival Date: Fri 5 June 2020  
Report Date: Wed 10 June 2020

**Sample Type:** Plumage  
**Shipped By:** By Hand  
**Sample Identification:** washed white duck down 15%



<sup>1</sup> CMA Accredited

<sup>2</sup> CNAS Accredited

This analysis represents (within normal testing variances) the test results from the sample(s) submitted. The analysis may not represent the entire lot, batch or production run. In no event shall IDFL be responsible or liable for any direct, indirect, punitive, incidental, special, or consequential damages whatsoever arising out of or connected with the use of, misuse of, or reliance upon such results or analysis. This test report is subject to the Terms and Conditions found at [www.idfl.com](http://www.idfl.com).

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**IDFL SALT LAKE**  
1455 South 1100 East  
Salt Lake City, UT 84105  
USA  
+1 801 467 7611  
info@idfl.com

**IDFL EUROPE AG**  
Zürcherstrasse 282  
CH-8500 Frauenfeld  
Switzerland  
+41 52 765 1574  
europe@idfl.com

**IDFL CHINA**  
Tonghui Mid-Road 688, Xiaoshan  
Hangzhou Zhejiang 311200  
China  
+86 571 8273 6561  
china@idfl.com

**IDFL TAIPEI**  
2F., No. 163 Sec. 2, Wenhua Rd.  
Banqiao District, New Taipei City  
Taiwan  
+886 2 2259 1178  
taiwan@idfl.com

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## Test Orders Summary

Test	Test Component	Result	Expected Value
Content EN 12131 2018	Down Clusters	16.7%	11.9%
	Total Down	17.0%	
Species Down & Feathers IDFB Part 12 2013	Total Goose	0%	
	Total Duck	100%	
Fill Power -Tumble Dry Conditioning EN 12130-B 2018	Final Fill Power Height	86 mm/30g	
Oxygen Number EN 1162 1996	Oxygen	1.6 mg/100g	
Turbidity EN 1164 1998	Turbidity Glass Tube	1000 mm	

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## Content EN 12131 2018<sup>2, 1</sup>

Down Clusters	16.7%
Down Fibers	0.3%
Waterfowl Feather Fibers	0.8%
Waterfowl Feathers	80.0%
Broken and Damaged Waterfowl Feathers	1.7%
Quill	0.0%
Landfowl	0.0%
Residue	0.5%
<b>Total</b>	<b>100.0%</b>

## Result(s) Used for Evaluation

<b>Total Down</b>	<b>17.0%</b>
Down Fiber Allowance (0.3%) + Down Clusters (16.7%)	
<b>Total Waterfowl Feathers</b>	<b>82.5%</b>
Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers Allowance (2.5%) + Waterfowl Feathers (80.0%)	
<b>Other Elements</b>	<b>0.5%</b>
Excess Down Fiber (0.0%) + Excess Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers (0.0%) + Landfowl (0.0%) + Residue (0.5%) + Quill (0.0%)	

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

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

## Fill Power - Tumble Dry Conditioning EN 12130-B 2018<sup>2</sup>

Height	86 mm/30g
Volume	189 cm <sup>3</sup> /g

## Fill Power - Steam Conditioning EN 12130-A 2018<sup>2</sup>

Volume	400 in <sup>3</sup> /30g
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## Oxygen Number EN 1162 1996<sup>2, 1</sup>

Oxygen	1.6 mg/100g
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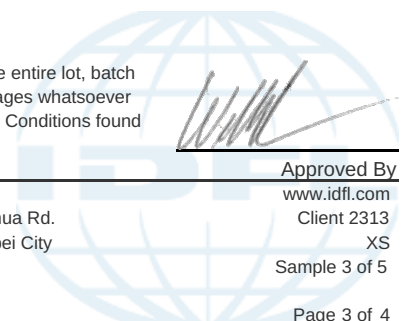
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## Turbidity EN 1164 1998 <sup>2, 1</sup>

Turbidity Glass Tube **1000 mm**

Turbidity NTU **1.81 NTU**

## European Standards Down & Feather Products Labelling EN 12934

Evaluation Component	Test	Test Component	Requirement	Result	Finding
Basic	Oxygen Number EN 1162 1996	Oxygen Number	Max 20 mg/100g	<b>1.6 mg/100g</b>	Pass
	Turbidity EN 1164 1998	Turbidity	Greater than 300 mm	<b>1000 mm</b>	Pass
15% Down / 85% Feathers	Content EN 12131 2018	Total Down	Min 12.5%	<b>17.0%</b>	Pass
		Other Elements	N/A %	<b>0.5%</b>	-
		Down Clusters	Min 11.9%	<b>16.7%</b>	Pass
		Landfowl	Max 9.9%	<b>0.0%</b>	Pass
		Total Waterfowl Feathers	N/A %	<b>82.5%</b>	-
Class I	Content EN 12131 2018	Other Elements	Max 5%	<b>0.5%</b>	Pass
Duck (Down & Feathers)	Species Down & Feathers IDFB Part 12 2013	Total Duck	Min 70	<b>100</b>	Pass
Fill Power Steam (in <sup>3</sup> /30g)	Fill Power - Steam Conditioning EN 12130-A 2018	Fill Power Steam (in <sup>3</sup> /30g)		<b>400 in<sup>3</sup>/30g</b>	-
Fill Power Tumble Dry (cm <sup>3</sup> /g)	Fill Power - Tumble Dry Conditioning EN 12130-B 2018	Fill Power Tumble Dry (cm <sup>3</sup> /g)		<b>189 cm<sup>3</sup>/g</b>	-

**Total Down:** Down Fiber Allowance (0.3%) + Down Clusters (16.7%) = **17.0%**

**Total Waterfowl Feathers:**

Waterfowl Feather Fibers & Broken and Damaged Waterfowl Feathers Allowance (2.5%) + Waterfowl Feathers (80.0%)

= **82.5%**

**Other Elements:**

Excess Down Fiber (0.0%) + Excess Waterfowl Feathers & Broken and Damaged Waterfowl Feathers (0.0%) + Landfowl (0.0%) + Residue (0.5%) + Quill (0.0%)

= **0.5%**

Suggested Label based on EN 12934 requirements

New Pure Duck Feathers & Down Class I,  
85% Feathers  
15% Down

The decision rules found in the test standard EN 12934:1999 fall within the measure of uncertainty as referenced in the relevant test standards

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