

Final Test Report

IDFL # 17-235405

Treated SM302T 90% Washed White Goose Down Country Ltd

09 Feb 2017

XS-31953

Michael Mao

Hangzhou Samsung Down Products Co., Ltd No.288, Xiaoshao East Road, Xintang Street, Xiaoshan District Hangzhou, ZJ CHINA Sample Description: Plumage cyrel@samsungdown.com michael@samsungdown.com Arrived: 16 Jan 2017 Completed: 25 Jan 2017 Fat and Oil: 09 Feb 2017 Retest FP: 09 Feb 2017

Sample Description: Plumage Shipped By: STO 402221842938 Filling Label:

Sample Identification: Treated

SM302T 90% Washed White Goose Down (Texcote Nano DWR). Zi Goose, Anser Cygnoides Domestica, Farm Raised. BRAND NAME: MACKAGE SEASON: FALL17 STYLE NAMES: As Per Production/Consumption Chart Submitted to APP



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.

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Sample: 1 of 2

XS-31953

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Final Test Report

Hangzhou Samsung Down Products Co., Hangzhou Samsung Down Products Co.,

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Content Analysis IDFB-3 - USA Report Format

- Down Cluster 92.7%
- **Down Fiber** 2.7%
- **Feather Fiber** 2.3%
- **Waterfowl Feathers** 2.2%
- **Broken / Damaged Feathers** 0.1%
 - Quill 0.0%
 - Landfowl 0.0%
 - Residue 0.0%
 - **Total** 100.0%

Species IDFB-12

Goose Down 87%

- **Duck Down** 13%
- **Goose Feathers** 95%
 - **Duck Feathers** 5%
 - **Total Goose** 87%
 - Total Duck 13%

Fill Power

Method	Conditioning	Final
IDFB/Lorch Cylinder (in ³ /30g)	Steam IDFB-10-B	770

Cleanliness Evaluation

Oxygen IDFB-7	1.6 mg/100g	
Turbidity IDFB-11-B	1000+ mm	
IDFB-11-A	1.06 NTU	
Fat and Oil IDFB-4	1.1%	
Moisture IDFB-5	8.3%	

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Odor Evaluation

CHECK-IN					
1. ODOR UPON ARRIVAL :	Normal				
Odor upon opening of shipping box					
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 :	Not possessory if oder is OK in #2 above !				
(24 hours after removal from packaging)	'Not necessary if odor is OK in #2 above.'				
4. ODOR of PACKAGING :	Normal				
(Any Odor that might exist in packaging)					
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	'Not necessary if odor is OK in #5 above.'				
LAB TEST					
7. ACTUAL LAB TEST :	4 PASS (Normal Feather Odor)				
(1-5 'Nose' Lab Test)					
8. OTHER COMMENTS :					
OtherCommentsDesc					
Conclusion					

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Sample Info – Treated

IDFL #: 17-235405

Treated SM302T 90% Washed White Goose Down (Texcote Nano DWR).

Sample ID: Zi Goose, Anser Cygnoides Domestica, Farm Raised. BRAND NAME: MACKAGE SEASON: FALL17 STYLE NAMES: As Per Production/Consumption Chart Submitted to APP

Date: 9-Feb-2017

Expected Results		Test Results	
Content:	90.0%	Content:	92.7%
Species:	Goose	Species:	Goose 770in ³ /30g
Fill Power:	N/A	Fill Power:	770in ³ /30g
Fat & Oil	N/A	Fat & Oil	1.1%

Will

Approved By:

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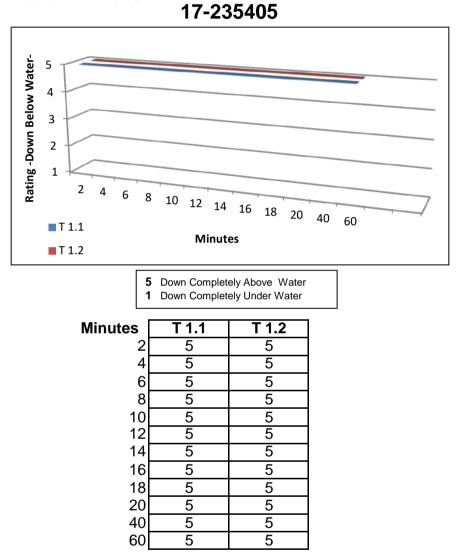
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IDFB 18-A

Hydrophobic Shake Test Measurement Interval - 2 Minutes



Treated material remains at rating 5 after : 60 minutes

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



Rating: 5 **IDFB 18-A** Hydrophobic Shake Test Measured Time Interval – 2 Minutes



Rating: 5



Rating: 5



Rating: 5

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