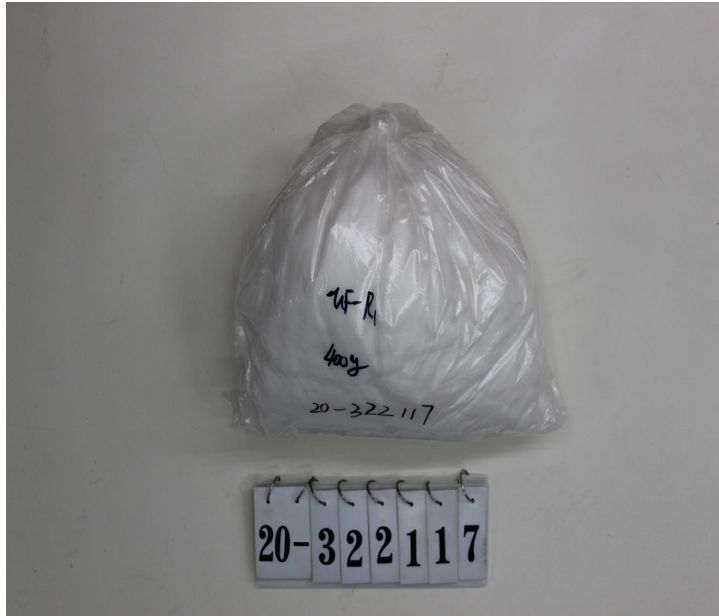


<b>Peter Peng</b> Shanghai Shuote Nonwovens Co., Ltd No. 8399, Tingfeng Road, Fengjing Industrial Park Jinshan District, Shanghai China	pengchen@chinastwf.cn 5-Day <b>Arrival Date:</b> Fri 27 Nov. 2020 <b>Report Date:</b> Thu 3 Dec. 2020
---	--

**Sample Type:** Polyester  
**Shipped By:** SF 1097379732231  
**Sample Identification:** REPREVE RECYCLE INSULATION (UF-R1 TYPE)



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).



**IDFL LABORATORY AND INSTITUTE**

**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

**IDFL VIETNAM**  
 No. 8, B4 Street An Loi Dong Ward  
 District 2, Ho Chi Minh City  
 Vietnam  
 +84 282-244-7611  
 vietnam@idfl.com

**Approved By**  
[www.idfl.com](http://www.idfl.com)  
 Client 12237  
 XS  
 Sample 4 of 4  
 Page 1 of 3

**Test Orders Summary**

Test	Test Component	Result	Expected Value
Denier / Tex - Synthetic Filling ASTM D1577	Denier	2.5 d	

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).



**IDFL LABORATORY AND INSTITUTE**

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

**IDFL EUROPE AG**  
 Zürcherstrasse 282  
 CH-8500 Frauenfeld  
 Switzerland  
 +41 52 765 1574  
[europe@idfl.com](mailto:europe@idfl.com)

**IDFL CHINA**  
 Tonghui Mid-Road 688, Xiaoshan  
 Hangzhou Zhejiang 311200  
 China  
 +86 571 8273 6561  
[china@idfl.com](mailto: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](mailto:taiwan@idfl.com)

**IDFL VIETNAM**  
 No. 8, B4 Street An Loi Dong Ward  
 District 2, Ho Chi Minh City  
 Vietnam  
 +84 282-244-7611  
[vietnam@idfl.com](mailto:vietnam@idfl.com)

Approved By

[www.idfl.com](http://www.idfl.com)

Client 12237

XS

Sample 4 of 4



# Test Report

REPREVE RECYCLE INSULATION  
(UF-R1 TYPE)

IDFL # 20-322117

Shanghai Shuote Nonwovens Co., Ltd  
Thu 3 Dec. 2020

## Fiber Analysis: Quantitative AATCC 20A 2014

Fiber Analysis 100% Polyester

## Denier / Tex - Synthetic Filling ASTM D1577

Denier 2.5 d

## Compression and Recovery IDFL 211 2017

Fill Power Method: IDFB 10B

	Loft	Percentage
Initial Fill Power	330 in <sup>3</sup> /30g	100.0%
Compression	105 in <sup>3</sup> /30g	68.2%
Recovery	285 in <sup>3</sup> /30g	86.4%

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).

### IDFL LABORATORY AND INSTITUTE

**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

**IDFL VIETNAM**  
No. 8, B4 Street An Loi Dong Ward  
District 2, Ho Chi Minh City  
Vietnam  
+84 282-244-7611  
vietnam@idfl.com

Approved By  
[www.idfl.com](http://www.idfl.com)  
Client 12237  
XS  
Sample 4 of 4  
Page 3 of 3