



IPS TESTING

Test Report
May 27, 2020
Page 1 of 4
SGS-IPS 00831-20

Report to: Yohay Levram
Orange and Dragon
Unit 19ab
Shidai Mansion
390 PanYu Road
Shanghai, 200051
China

Sample Identification: **One 40g Non-woven Fabric with 18g PE**

Date Received: May 21, 2020

Test(s) Requested: Water Resistance: Impact Penetration, Water Resistance: Hydrostatic Pressure

PO Number: Wire Transfer

Analysis of One 40g Non-woven Fabric with 18g PE

SGS-IPS Testing performed the testing listed above on one 40g non-woven fabric with 18g PE provided by Orange and Dragon. The results are listed in Tables 1 and 2 on the following pages.

If you have any questions, please contact us.

Authorized by

Rhonda J Mesko
Laboratory Manager

Signed

Eric Belter
Lab Technician
Analytical Services
920-749-3040

Table 1. Water Resistance: Impact Penetration

1



AT-1659

Water Penetration (g)

1	0.0
2	0.0
3	0.0
<hr/>	
Average	0.0
Std. Dev.	0.00
Maximum	0.0
Minimum	0.0
n=	3



Test Parameters

Temperature (°C) 26.8

Test Side: Outside

Blotter Lot: 112645

Table 2. Water Resistance: Hydrostatic Pressure

Orientation	1 Outside	SdB
  AT-1659		
Hydrohead (mbar)		
1	49.6	NA
2	56.7	NA
3	56.2	NA
Average	54.2	NA
Std. Dev.	3.96	NA
Maximum	56.7	NA
Minimum	49.6	NA
n=	3	NA
Hydrohead (cm of H ₂ O)	55.3	NA
Test Parameters		
Temperature (°C)	22.4	NA
Test Pressure Limit (mbar)	1000	NA
Failure Type	3 Drops	NA

Gradient: 60 mbar/min
 Water Type: Deionized Water

Method(s) and Notes:

All valid results are included in the statistical analyses.
 Revisions of SGS-IPS methods when used are current at the time of testing.
 Samples tested and conditioned in TAPPI standard conditions unless requested otherwise by customer.
 Samples were not preconditioned.

AATCC 42-2017 Water Resistance: Impact Penetration Test

Type II Impact Penetration Tester was used for this testing.
 Samples conditioned in TAPPI standard conditions unless requested otherwise by customer.

The estimated k=2 uncertainty for AATCC 42 is calculated and available on request.
 Spray head has a hole in the center, funnel is plastic instead of glass.

Blotter papers used: Ahlstrom Grade 989.

AATCC Test Method 127-2017 Water Resistance: Hydrostatic Pressure Test

Option 2, Hydrostatic Head Tester.

Samples conditioned in TAPPI standard conditions unless requested otherwise by customer.

Analyzed by: EB
Quality review by: TY
Date(s) of testing: May 22, 2020

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.4	73.6
Maximum during testing	51.3	73.9
Minimum during testing	50.4	73.6

Note: See the method(s) cited above for available estimates of measurement uncertainty. Unless otherwise noted, sampling was performed by customer.

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