



IPS TESTING

Test Report
June 25, 2020
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SGS-IPS 01021-20

Report to: Gilbert Audet
Paty, Incorporated
4540 S Pinemont Drive
Houston, TX 77041

Sample Identification: **One Polypropylene Film Sample**

Date Received: June 18, 2020

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

PO Number: Credit Card

Analysis of One Polypropylene Film Sample

SGS-IPS Testing performed the testing listed above on one polypropylene film sample provided by Paty, Incorporated. The results are listed in Tables 1 and 2 on the following pages.

If you have any questions, please contact us.

Authorized by Mai Pa V. Xiong
MaiPa Xiong
Laboratory Manager

Signed Eric Belter
Eric Belter
Lab Technician
Analytical Services
920-749-3040

Table 1. Water Resistance: Impact Penetration

Polyethylene .09 ml
thick



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) 26.9

Test Side: Outside
Blotter Lot: 112645

Table 2. Water Resistance: Hydrostatic Pressure

Polyethylene .09 ml thick		
Orientation	Outside	SdB
  AT-1659		
Hydrohead (mbar)		
1	98.9	NA
2	101	NA
3	101	NA
Average	100	NA
Std. Dev.	1.2	NA
Maximum	101	NA
Minimum	98.9	NA
n=	3	NA
Hydrohead (cm of H ₂ O)	102	NA
Test Parameters		
Temperature (°C)	22.0	NA
Test Pressure Limit (mbar)	1000	NA
Failure Type	Burst	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: RJM

Date(s) of testing: June 24, 2020

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.1	73.8
Maximum during testing	50.1	73.9
Minimum during testing	49.4	73.8

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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