

Test Report May 15, 2020 Page 1 of 4 SGS-IPS 00730-20

Report to: Justin DeAtley Polyconversions, Inc. 3202 Apollo Dr. Champaign, IL 61822

Sample Identification: Four Gown Samples

Date Received: May 6, 2020

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

PO Number: Credit Card

Analysis of Four Gown Samples

SGS-IPS Testing performed the testing listed above on four gown samples provided by Polyconversions, Inc. The results are listed in Tables 1 through 3 on the following pages.

If you have any questions, please contact us.

Authorized by

Rhonda J Mesko Laboratory Manager

Kin Getter Signed_

Eric Belter Lab Technician Analytical Services 920-749-3040

Report to Polyconversions, Inc. SGS-IPS 00730-20

May 15, 2020 Page 2 of 4

Table 1. Water Resistance: Impact Penetration

	12620	10520	11500	42500	
			AT-1659		
Water Penetration (g)	TES	FING LABORATORY			
1 2 3	0.5 1.1 0.1	0.1 0.0 0.0	0.3 0.0 1.0	0.9 2.6 0.1	
Average Std. Dev. Maximum Minimum n=	0.6 0.48 1.1 0.1 3	0.0 0.03 0.1 0.0 3	0.4 0.47 1.0 0.0 3	1.2 1.29 2.6 0.1 3	
Test Parameters Temperature (°C) Test Side: Outsic		26.7	26.7	26.7	
Blotter Lot: 1126		•			
	12620	10520	11500	42500	
Test Side	Outside	ING LABORATORY	AT-1659 Outside	Outside	
Resistance to Blood Po	enetration (Pass/Fail)				
1 2 3	Pass Pass Pass	Pass Pass Pass	Pass Pass Pass	Pass Pass Pass	
Resistance to Blood Penetration Summary	3 Pass / 0 Fail	3 Pass / 0 Fail	3 Pass / 0 Fail	Fail 3 Pass / 0 Fail	
Procedure	В	В В		В	
Lot Number	308201	308201	308201	308201	

Report to Polyconversions, Inc. SGS-IPS 00730-20

Table 3. Water Resistance: Hydrostatic Pressure

	126	20	105	20	115	00	425	00
Orientation	Outside	SdB	Outside	SdB	Outside	SdB	Outside	SdB
		A C TE			AT-1659			
Hydrohead (mbar)								
1 2 3	179 188 190	NA NA NA	88.2 96.8 105	NA NA NA	88.7 91.5 83.0	NA NA NA	274 272 250	NA NA NA
Average Std. Dev. Maximum Minimum n=	186 5.9 190 179 3	NA NA NA NA	96.7 8.40 105 88.2 3	NA NA NA NA	87.7 4.33 91.5 83.0 3	NA NA NA NA	265 13.3 274 250 3	NA NA NA NA
Hydrohead (cm of H₂O)	189	NA	98.6	NA	89.5	NA	271	NA
Test Parameters								
Temperature (°C)	22.1	NA	22.0	NA	22.0	NA	22.0	NA
Test Pressure Limit (mbar)	1000	NA	1000	NA	1000	NA	1000	NA
Failure Type*	Burst	NA	3 Drops	NA	3 Drops	NA	Burst	NA
*Specimen 3 failure type for sample 10520 was a burst.								

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.

ASTM F 1670/F 1670M - 17a Standard Test Method for Resistance of Materials Used In



Report to Polyconversions, Inc. SGS-IPS 00730-20

May 15, 2020 Page 4 of 4

Protective Clothing to Penetration by Synthetic Blood

Test specimens are cut from the samples provided, and customer retains detailed sample information.

For Method B the retaining screen used is 11 x 11 Nylon Mesh.

Synthetic blood is purchased from Johnson, Moen & Co. Surface tension is not independently verified after receipt and unused synthetic blood is stored in original plastic bottles.

SGS-IPS does not measure specimen weight or thickness.

If synthetic blood penetration is not visually observed, samples are gently wiped with a clean cotton swab to determine if penetration occurred.

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: <u>TH, EB, AS</u> Quality review by: <u>EB, AS</u> Date(s) of testing: <u>May 14-15, 2020</u>

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.0	73.4
Maximum during testing Minimum during testing	51.1 50.0	73.4 73.4

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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