



# IPS TESTING

Revision 1 of Test Report  
June 22, 2020  
Page 1 of 4  
SGS-IPS 00993-20

Report to: Adam Casson  
Arma Safety Products LLC  
495A Henry St.  
Suite 305  
Brooklyn, NY 11231

Sample Identification: **One HDPE Isolation Gown Sample**

Date Received: June 15, 2020

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

PO Number: Credit Card

## Analysis of One HDPE Isolation Gown Sample

SGS-IPS Testing performed the testing listed above on one HDPE isolation gown sample provided by Arma Safety Products LLC. The results are listed in Tables 1 and 2 on the following pages. Please note: one gown product type was tested, but three individual gowns were tested per the method. This revised report is being issued to update the product number per customer request.

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




	IG0002 Gown Front	IG0002 Gown Sleeves	IG0002 Gown Sleeve Seams	IG0002 Gown Upper Chest
  <b>AT-1659</b>				
Water Penetration (g)				
1	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0
Average	0.0	0.0	0.0	0.0
Std. Dev.	0.00	0.00	0.00	0.00
Maximum	0.0	0.0	0.0	0.0
Minimum	0.0	0.0	0.0	0.0
n=	3	3	3	3
Test Parameters				
Temperature (°C)	26.6	26.4	26.7	26.3
Test Side: Outside				
Blotter Lot: 112645				

Table 2. Water Resistance: Hydrostatic Pressure

	IG0002 Gown Front	IG0002 Gown Sleeves	IG0002 Gown Sleeve Seams	IG0002 Gown Upper Chest
Orientation	Outside	Outside	Outside	Outside
				
<b>AT-1659</b>				
Hydrohead (mbar)				
1	130	137	155	146
2	128	132	149	130
3	140	130	141	128
Average	133	133	148	135
Std. Dev.	6.4	3.6	7.0	9.9
Maximum	140	137	155	146
Minimum	128	130	141	128
n=	3	3	3	3
Hydrohead (cm of H <sub>2</sub> O)	135	136	151	137
Test Parameters				
Temperature (°C)	23.1	22.7	22.7	22.7
Test Pressure Limit (mbar)	1000	1000	1000	1000
Failure Type	Burst	Burst	Burst	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.

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: June 19, 2020

### Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.7	73.4
Maximum during testing	50.7	73.8
Minimum during testing	50.3	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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