



IPS TESTING

Test Report
July 10, 2020
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SGS-IPS 01115-20

Report to: Bruce Powell
Exhibitmax - Biomax
2001 W. 94th St.
Ste. 101
Bloomington, MN 55431

Sample Identification: **One Face Mask Sample**

Date Received: July 6, 2020

Test(s) Requested: Resistance to Blood Penetration - ASTM F 1862


PO Number: Credit Card

Analysis of One Face Mask Sample

SGS-IPS Testing performed the testing listed above on one face mask sample provided by Exhibitmax - Biomax. The results are summarized in Table 1 on page 2.

If you have any questions, please contact us.

Authorized on behalf
of MaiPa Xiong by


Lani Winger
Customer Service Lead

Signed 
Andrew Smits
Senior Lab Technician
Physical Testing
920-749-3040

Table 1. Resistance to Blood Penetration - ASTM F 1862

Surgical Face
 Masks



AT-1659

Resistance to Blood Penetration (Pass/Fail)

1	Pass
2	Pass
3	Pass
4	Pass
5	Pass
6	Pass
7	Pass
8	Pass
9	Pass
10	Pass
11	Pass
12	Pass
13	Pass
14	Pass
15	Pass
16	Pass
17	Fail
18	Pass
19	Pass
20	Pass
21	Pass
22	Pass
23	Pass
24	Pass
25	Pass
26	Pass
27	Pass
28	Pass
29	Pass
30	Pass
31	Pass
32	Pass

Resistance to Blood Penetration Summary 31 Pass/1 Fail

Test Parameters

Test Pressure (mmHg)	160
Lot Number	93192

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.

ASTM F 1862/F 1862M-17 Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)

A 2 mL check was performed at the beginning, middle and end of each sample.

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.

Analyzed by: AS

Quality review by: TFH

Date(s) of testing: July 9, 2020

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.1	74.7
Maximum during testing	50.7	74.7
Minimum during testing	50.1	74.5

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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Parameters and Instruments Appendix
Resistance to Blood Penetration - ASTM F 1862

Chamber Humidity (%RH)
81.9

Chamber Temperature (°F)
70.1