



IPS TESTING

Test Report
July 17, 2020
Page 1 of 5
SGS-IPS 01103-20

Report to: Julie Zanatta
Novo Textiles
105-10 King Edward Street
Coquitlam, BC, V3K 4S8
Canada

Sample Identification: **Project JN 21959 (One Face Mask Sample)**

Date Received: July 1, 2020

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

PO Number: SGS IBR (JN 21959)

Analysis of One Face Mask Sample

SGS IPS Testing performed the testing listed above on one face mask sample provided by Novo Textiles. The results are summarized in Tables 1 and 2 on the following pages.

If you have any questions, please contact us.

Authorized on behalf
of MaiPa Xiong by


Lani Winger
Customer Service Lead

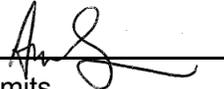
Signed 
Andrew Smits
Senior Lab Technician
Physical Testing
920-749-3040

Table 1. Physical Properties

JN 21959 Face Masks	
Flammability	
 	
Orientation	Nose to chin
Test Side	Outside
Burn Time (sec)	
1	IBE
2	IBE
3	IBE
4	IBE
5	IBE
Average	IBE
Classifications	Class 1

AT-1659

IBE indicates the specimen Ignited But Extinguished.
 DNI indicates the specimen Did Not Ignite.
 Average calculated based on combusted samples only.

Table 2. Resistance to Blood Penetration - ASTM F 1862

JN 21959 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	Fail
12	Pass
13	Pass
14	Pass
15	Pass
16	Fail
17	Pass
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 30 Pass/2 Fail

Test Parameters

Test Pressure (mmHg)	160
Lot Number	47201

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.

16 CFR Ch. II Part 1610 (1-1-18 Edition) - Standard for the Flammability of Clothing Textiles
Testing conducted as a Plain Surface Textile Fabric.

Samples were not refurbished.

Preliminary tests to determine most rapidly burning direction were not conducted.

Samples were cooled in a desiccator after oven drying for a minimum of 15 minutes.

If samples could not be dried in an oven, samples were placed in a desiccator for a minimum of 1 hour.

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: EJW, AS, RG

Quality review by: TY

Date(s) of testing: July 7-17, 2020

Room Conditions

	Relative Humidity (%)	Temperature (°F)
Conditioning Environment	50.9	73.6
Maximum during testing	51.4	74.3
Minimum during testing	50.9	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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Parameters and Instruments Appendix
Resistance to Blood Penetration - ASTM F 1862

Chamber Humidity (%RH)
82.1

Chamber Temperature (°F)
70.4