

Following is a copy of the results of our latest independent testing as completed by Intertek, a globally respected independent testing lab. The results demonstrate US Meltblown's ability to meet each critical level for compliance under ASTM F2100, Level 3. Please note that these tests were conducted with **just one layer** of US Meltblown's meltblown polypropylene nonwoven fabric which is made in the USA by our proud U.S. citizens, using U.S.-produced raw materials, at our U.S. manufacturing facility in Fort Walton Beach, Florida.

Our meltblown's ability to meet ASTM F2100, Level 3 with just one layer "outside the completed mask" serves as a testament to the high quality of this U.S.-made product as manufactured by US Meltblown's skilled and caring employees. Your use of our meltblown product inside your assembled masks will provide further additive filtering and moisture repellency so that you will truly be delivering the best possible safety products to our country: to our military, to our medical and first responder communities, to public safety professionals, to everyone in the industries that serve our economy, and to all the citizens of the United States of America.

US MELTBLOWN LLC

TEST REPORT

SCOPE OF WORK

Performance Testing of Face Masks to
*ASTM F2100 Standard Specification for Performance of
Materials Used in Medical Face Masks, 2020 Edition*

REPORT NUMBER

104712324CRT-001

ISSUE DATE

June 30, 2021

PAGES

8

DOCUMENT CONTROL NUMBER

GFT-OP-10i (28-Nov-2018)

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TEST REPORT

Issued June 30, 2021

Intertek Report No. 104712324CRT-001
Intertek Project No. G104712324

CLIENT

US MELTBLOWN LLC
161 Hill Ave NW
Fort Walton Beach, FL 32548
USA

TEST STANDARD

ASTM F2100 *Standard Specification for Performance of Materials Used in Medical Face Masks, 2020 Edition*

AUTHORIZATION

Quote Number: Qu-01180325-0

SAMPLE IDENTIFIED BY THE CLIENT AS

Product Type: Flat Material
Brand Name: US MELTBLOWN
Model Numbers: White Flat Material Sheets

SAMPLE INFORMATION

Date(s) Samples Received: June 8, 2021
Condition of Samples: Product Development
Date(s) of Testing: June 20, 2021 Through June 30, 2021

TEST INFORMATION

ASTM F2101 <i>Bacterial Filtration Efficiency</i>	Test data attached
EN 14683:2019 Annex C <i>Differential Pressure</i>	Test data attached
ASTM F2299 <i>Sub-Micron Particulate Filtration</i>	Test data attached
ASTM F1862 <i>Resistance to Penetration by Synthetic Blood</i>	Not tested under this project
16 CFR 1610 <i>Flammability</i>	Not tested under this project

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TEST REPORT

Issued June 30, 2021

Intertek Report No. 104712324CRT-001

Intertek Project No. G104712324

SECTION 1

CONCLUSION

This test report represents the testing covered by proposal number Qu-01180325-0.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

If there are any questions regarding the results contained in this report, or any other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Owner: Steven Morey

Title: Technician

Signature: 

Date: June 30, 2021

Project Reviewer: Jason Allen

Title: Technical Advisor

Signature: 

Date: June 30, 2021

REPORT REVISIONS

Date / Project #	Project Handler/ Reviewer	Description of Change

TEST REPORT

SECTION 2

ASTM F2100-19 TEST DATA

BACTERIAL FILTRATION EFFICIENCY (BFE), ASTM F2101-19

Specimens conditioned for 4-hours at 20.4-22.1°C and 83-86%RH

Test Set-up Information	
Area of Test Specimen (cm ²)	48.3
Specimen Side Facing Challenge	Inside of Mask
Flow Rate (LPM)	28.3
Averaged + Control Plate Count	2402
Mean Particle Size (µm)	2.62. 2.71

Medical Face Mask Barrier Testing					
Plate Count	Mask Specimen				
Stage	1	2	3	4	5
Stage 1	0	1	0	0	0
Stage 2	0	0	1	0	0
Stage 3	0	0	0	0	0
Stage 4	0	1	1	0	1
Stage 5	1	2	4	1	1
Stage 6	0	0	0	0	0
Plate Count Total	1	4	6	1	2
% BFE	>99.9	99.83	99.75	>99.9	>99.9

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
Conditioning Chamber	308-H252	2/26/2020	2/26/2021
Timer	308-H358	1/13/2020	1/13/2021
Pipette	308-H294	2/26/2020	2/26/2021
Analytical Balance	308-S268	12/2/2019	12/2/2020

Date of Testing	6/23/2021
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TEST REPORT

SECTION 3

ASTM F2100-19 TEST DATA

DIFFERENTIAL PRESSURE, EN 14683:2019 ANNEX C

Specimens conditioned for 4-hours at 20-22°C and 82-86%RH

Specimens tested at 20-22°C and 55-62% RH

Flow Rate 8 L/min

Medical Face Mask Barrier Testing- White Sample						
Specimen	Average ΔP (mm H ₂ O/cm ²)	Area 1	Area 2	Area 3	Area 4	Area 5
1	2.7	2.8	2.8	2.8	2.4	2.8
2	2.7	2.7	3.0	2.6	2.4	2.6
3	2.6	2.8	2.6	2.4	2.8	2.7
4	2.7	2.6	2.7	2.7	2.6	2.7
5	2.6	2.7	2.6	2.6	2.8	2.4

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
Conditioning Chamber	308-H252	3/1/2021	3/1/2022
Differential Pressure Machine	308-H403	1/22/2021	1/21/2022

Date of Testing	6/30/2021
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TEST REPORT

SECTION 4

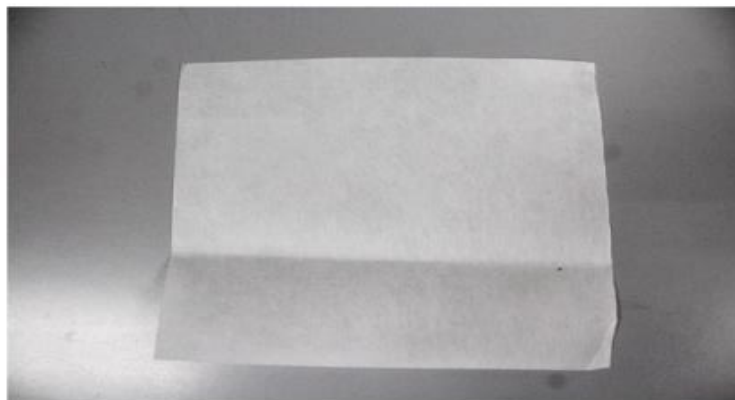
ASTM F2100-20 TEST DATA

PARTICULATE FILTRATION EFFICIENCY (PFE), ASTM F2299-17



NUMBER :GUAT21017361

Original Sample



TEST REPORT



NUMBER : GUAT21017361
DATE : 25-Jun-2021

APPLICANT : Intertek Testing Services NA Inc.
3993 US Route 11, Cortland, NY, 13045, U.S.A.
ATTN : Krissie Brown, Matthew Stevens

Overall Rating	
Pass	()
Fail	()
Data	(X)

Sample Description : G104712324 US Meltblown LLC
Buyer : Not Provided
Vendor : Not Provided
Agent : Not Provided
Manufacturer / Factory : Not Provided
Color : Not Provided
Style Number : CRT2106081057-001
PO Number : REQ ID 0000049245
Material /Fiber Content : Not Provided
Standard : ASTM F 2299
Product end use : Not Provided
Date Sample Received / Date Test Started : 22 Jun 2021

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

CONCLUSION :

▣ Determination of the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres D

NOTE: P = Meet Buyer's Requirement F = Below Buyer's Requirement
 * = See Remark C = Conform Label
 N/A = Not Applicable D = Data

AUTHORIZED BY
FOR Intertek de Guatemala, S.A. [Guatemala]

RUDY SEMRAU
GENERAL MANAGER

REPORTES GUATEMALA

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