



# Test Report

No.T32120250067SN

Date: Apr 23, 2021

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MYM TECHNOLOGY (M) SDN BHD

LOT 19, JALAN TSB 8, TAMAN INDUSTRI SUNGAI BULOH, 47000 KOTA DAMANSARA, SELANGOR DARUL EHSAN

The following samples were submitted and identified by/on behalf of the client as:

TRANSPARENT FACE MASK

Case No. : CA321202503869  
 CRS Ref. No. : 2021-03-24-018 (CA61007)  
 Lot No. / Batch Code : NOT PROVIDED  
 Sample Receiving Date : APR 07, 2021  
 Testing Period : APR 07, 2021 – APR 23, 2021

Test Requested	Conclusion
Bacterial filtration efficiency (With reference to ASTM F2101-19)	See Result
Differential pressure (With reference to EN14683:2019+AC:2019 Appendix C)	See Result
Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres (With reference to ASTM F2299/F2299M-03 (Reapproved 2017))	See Result

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.

Au Kam Chi, Gigi  
Technical Manager

Signed for and on behalf of  
SGS Hong Kong Ltd.

Tsang Chuk Hai  
Senior Microbiologist

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**Test Results:**
**Bacterial filtration efficiency With reference to ASTM F2101-19**

Test Side	: Either side (Raw material)
Pre-Conditioning	: Minimum of 4 hours at 21±5°C and 85±5% R.H.
Dimensions of test specimen	: 122 mm x 122 mm
BFE Test Area	: 49 cm <sup>2</sup>
BFE Flow Rate	: 28.3 l/min
Test bacteria	: Staphylococcus aureus ATCC 6538
Mean Particle Size	: 2.8 µm
Positive Control Average	: 2.1 x 10 <sup>3</sup> CFU
Negative Monitor Count	: < 1 CFU

Test Specimen	Percent BFE (%)
1	99.7
2	99.9
3	99.8
4	99.9
5	99.9

Note: Plate count total for each stage can be provided upon request.

**Differential pressure With reference to EN14683:2019+AC:2019 Appendix C**

Test Side	: Either side (Raw material)
Pre-Conditioning	: Minimum of 4 hours at 21±5°C and 85±5% R.H.
Test Area	: 4.9 cm <sup>2</sup>
Flow Rate	: 8 l/min

Test Location	ΔP (mm H <sub>2</sub> O/cm <sup>2</sup> )				
	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Top Centre	3.1	3.1	3.4	3.0	3.2
Centre	3.2	3.2	3.1	3.2	3.2
Bottom Centre	3.3	3.2	3.2	3.2	3.1
Centre Left	3.2	3.2	3.2	3.0	2.9
Centre Right	3.3	3.3	3.0	3.2	3.2
Average	3.2	3.2	3.2	3.1	3.1

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**Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres (With reference to ASTM F2299/F2299M-03 (Reapproved 2017))**

Test Side : Either side (Raw material)  
 Pre-Conditioning : Minimum of 4 hours at 21±3°C and 30-50±5% R.H.  
 Test Condition : 21±3°C and 50±5% R.H.  
 Test Area : 41.61 cm<sup>2</sup>  
 Face Velocity : 9.98 cm/s  
 Particle Size : 0.1 µm (+/-15% CV) Latex Microspheres  
 Average Filtration Efficiency : 99.08%  
 Standard Deviation : 0.23

Test Specimen	Pressure Drop (inH <sub>2</sub> O)	Downstream Particle Count	Upstream Particle Count	Filtration Efficiency (%)
1	0.264	2035	187994	98.92
2	0.266	1768	145595	98.79
3	0.266	1426	174275	99.18
4	0.256	1531	174449	99.12
5	0.255	887	140554	99.37

Note: The procedure incorporated a non-neutralized challenge. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks.

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**Sample Photo:**

Sample Picture (As received)



Sample Picture (As received)



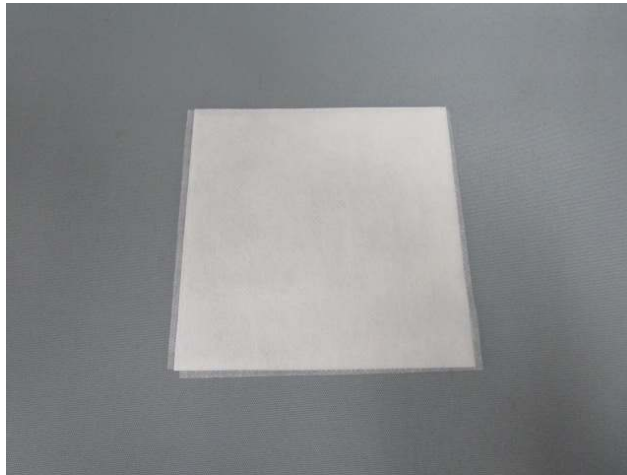
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Sample Picture (As received)



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\*\*\* End of Report \*\*\*

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