



TEST REPORT

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Date: 23/09/2020

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- Subject** : Penetration by particulates using latex sphere test for Face Mask submitted by Medi Dent International Private Limited on 16/09/2020.
- Purpose** : The purpose of the test is to measure the particulate filtration efficiency of a medical face mask
- Tested For** : **MEDI DENT INTERNATIONAL PRIVATE LIMITED**
21 Ubi Road 1
#05-02B
Singapore 408724
Attn: Mr Amjad Ali
- Method of Test** : ASTM F 2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks – Clause 9.3 Sub-Micron Particulate Filtration; Determine particulate filtration efficiency as directed in Test Method F2299
- Description of Samples** : 1 pack of SURGISYL 3-Ply Surgical Face Mask was received (Refer to Photograph 1)


Muhammad Shahmil
Testing Officer


Radin Fadzakir
Engineer


Shirley Lim Suidi
Executive Engineer


Salim Suwignjo
Principal Engineer

(CMTD) Construction Technology Division

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Test Results : Particulate Filtration Efficiency

Sample Reference	SURGISYL 3-Ply Surgical Face Mask				
Conditioning	From 18/09/2020 to 21/09/2020 @ 21°C, 52%RH				
Date of Test	21/09/2020				
Test Condition	23°C, 52%RH				
Flow rate (L/min)	28.3				
Size of Latex Particles (µm)	0.1				
Specimen Reference	S1	S2	S3	S4	S5
Thickness (mm)	0.55	0.54	0.55	0.54	0.55
Specimen Mass (g)	2.7653	2.7362	2.7516	2.7490	2.7376
Specimen Area (m ²)	26100	26100	26100	26100	26100
Mass per unit area (g/m ²)	9438.39	9538.77	9485.39	9494.36	9533.89
Penetrance, P (%)	0.501	0.213	0.071	0.281	0.00
Filtration Efficiency, E (%)	99.499	99.787	99.930	99.720	100
Average PFE (%)	99.79				
Requirement	Sub-micron particulate filtration efficiency at 0.1 micron, %				
Accordance to ASTM 2100-19	Level 1 ≥ 95				
	Level 2 ≥ 98				
	Level 3 ≥ 98				








Photograph 1 Surgisyl Brand Face Mask as received

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[Signature]

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