



## THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

P.B.No.3205, 13/37, Avinashi Road, Aerodrome P.O., Coimbatore - 641 014, INDIA

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Address all correspondence to the Director

### CoE - Microbiology Laboratory

Test Report No	: M1900343	Report Date	: 26-03-2020
SITRA Ref No	: XXVII / M / E / 1968 / 20	No of Samples	: 1
Customer Ref No	: 23.03.2020	Received On	: 23-03-2020

To

*Plasti Surge Industries Pvt Ltd*

A-70, MIDC.

Tested on: 24.03.2020 to 26.03.2020

Amaravathi, Maharashtra, India

Pincode : 444607

Contact No(s) : 9923332321

Dear Sir / Madam,

This has reference to the sample(s) submitted by you for testing vide your Letter reference no : 23.03.2020.

The results pertaining to your sample(s) are enclosed herewith.

Yours faithfully,

Authorized Signatory

Dr. E. Santhini

Encl : Bill [ T-COE-1920-01692 ]



### IMPORTANT

This report is strictly CONFIDENTIAL. Its use for publicity, arbitration or as evidence in legal disputes is forbidden. Reference of sample(s) given by the party. Samples are not drawn by the laboratory. The above results are related to the samples tested. The report shall not be reproduced except in full, without the written approval of the laboratory.



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Test Report No : M1900343

Report Date : 26-03-2020

Plasti Surge Industries Pvt Ltd

Ref : 23.03.2020

**Test Name :** Bacterial Filtration Efficiency ASTM F 2101-Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*


**Test Condition:**

Inoculum size : *Staphylococcus aureus* ATCC 6538 =  $5 \times 10^5$  CFU/ mL  
Media used : Tryptic soya agar  
Dilution medium used : Peptone water  
Incubation conditions : 37°C for 24 h

**Observation :**

Test Parameter	M1900343-1 Described by the customer : <u>Face Mask</u> : 3 ply Facemask with SMMS filter layer
Area of test specimen	Facemask
Sample exposure side	Faceside
Flow rate of aerosol	28.5 L/min
Mean particle size of challenging aerosol	$3.0 \pm 0.3$ micron
Average plate count of positive control	2737
Average plate count of negative control	0
BFE of test specimen (%)	96.5
<b>Result :</b> : The sample showed 96.5% bacterial filtration efficiency against <i>Staphylococcus aureus</i> ATCC 6538 when tested according to ASTM F 2101 test method.	

- End of Report -

  
27/3/2020  
Authorized Signatory

Dr. E. Santhini

