



# THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

**CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES**  
**Physical, Chemical & Biological Testing Laboratories**

(ISO/IEC 17025 NABL ACCREDITED)

13/37, Avinashi Road, Aerodrome Post, Coimbatore - 641 014, INDIA



Cert. Number:TC-6944

## CoE - Microbiology Laboratory

Test Report No	: M2000260	ULR: TC694420700000239F	Report Date	: 02-05-2020
SITRA Ref No	: XXVII / M / E / 3978 / 20		No of Samples	: 1
Customer Ref No	: DT 15.04.2020		Received On	: 15-04-2020

*To*

*Swayam Poly Plast Pvt.Ltd*

197/3/4, RANHATHVAS,  
SHAHWADI VILLAGE, NAROL-AHMEDABAD  
Ahmedabad,Gujarat ,India  
Pincode : 382405  
Contact No(s) : 9825031312

Tested on: 27.04.2020 to 30.04.2020

*Dear Sir / Madam,*

This has reference to the sample(s) submitted by you for testing vide your Letter reference no : **DT 15.04.2020**.

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

**Encl : Bill [ T-COE-2021-01926 ]**

This is a computer generated report, hence does not require signature.

### **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 : M2000260	ULR: TC69442070000239F	Report Date : 02-05-2020
Swayam Poly Plast Pvt.Ltd		Ref : DT 15.04.2020

**Test Name :** ASTM F 2101 - Bacterial filtration Efficiency

**Test Condition:**

Test Organisms Used	: <i>Staphylococcus aureus</i> ATCC 6538
Inoculum size	: $5 \times 10^5$ CFU/mL
Media used	: Tryptic soya agar
Dilution medium used	: Peptone water
Incubation conditions	: $37^{\circ}\text{C}$ for 24 h

**Observation :**

Test parameter	M2000260-1
	Described by the customer : <b>Face Mask: Face Mask</b>
Area of test specimen	Face mask 10 x 10 cm
Sample exposure side	Face side
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	2029
Average plate count of negative control	0
BFE of test specimen (%)	99.7
<b>Result :</b> : The sample showed 99.7 % bacterial filtration efficiency against <i>Staphylococcus aureus</i> ATCC 6538 when tested according to ASTM F 2101 test method.	

- End of Report -

*Authorized Signatory*