



# 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

## TEST REPORT

**XXVII/A/E/13502/20**

**ULR: TC694420010000737P**

**To**

**Rhysley Couture Pvt Ltd**

Sco-07 Omaxe World Street,

Sector 79,

Faridabad, Haryana, India

Pincode : 121004

Contact No(s) : 9654110362

Test Report No : **O2000963**

Sample Received On : **21-09-2020**

Inward Date : **21-09-2020**

Tested on : **21.09.2020 to 23.09.2020**

Report Date: **23-09-2020**

**Dear Sir / Madam,**

This has reference to the sample(s) submitted by you for testing vide your letter reference no : **DT 16.09.2020**.

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

**Encl : Bill**

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. Authenticity of the report may be verified from our website [www.lab.sitraonline.org](http://www.lab.sitraonline.org).



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Rhysley Couture Pvt Ltd

Ref : DT 16.09.2020

<b>ASTM F 2101 Bacterial filtration efficiency</b>	<b>O2000963-1</b> <u>Sample Particulars</u> : 1ST LAYER 25 GSM 2ND LAYER 40 GSM 3RD LAYER 25 GSM 4TH LAYER 25 GSM
<b>Test Condition[s]</b>	.
Test organisms used	<i>Staphylococcus aureus</i> ATCC 6538
Inoculum size	5 x 10 <sup>5</sup> CFU/mL
Media used	Tryptic soya agar
Dilution medium used	Peptone water
Incubation conditions	37 <sup>0</sup> C for 24 h
<b>Results</b>	.
Area of test specimen exposed	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 ± 0.3 micron
Average plate count of positive control	2680
Average plate count of negative control	0
BFE of test specimen (%)	99.9
The sample showed <b>99.9% bacterial filtration efficiency</b> against <i>Staphylococcus aureus</i> ATCC 6538 when tested according to ASTM F 2101 test method.	

<b>Breathability - Differential pressure-IS 16289**</b> <i>IS 16289:2014 Annexure C</i>	<b>O2000963-1</b> <u>Sample Particulars</u> : 1ST LAYER 25 GSM 2ND LAYER 40 GSM 3RD LAYER 25 GSM 4TH LAYER 25 GSM
Pa/cm <sup>2</sup>	129.41

<b>Flammability-16 CFR Part-1610**</b> <i>16 CFR Part-1610</i>	<b>O2000963-1</b> <u>Sample Particulars</u> : 1ST LAYER 25 GSM 2ND LAYER 40 GSM 3RD LAYER 25 GSM 4TH LAYER 25 GSM
Flammability in Seconds	Ignited But Self Extinguished
Auto Flame Chamber, 45deg inclined	.
Classification	Class 1
Class 1: Average burn time greater than or equal to 3.5 seconds Class 2: Average burn time is 4 to 7 seconds with base burn (Raised fiber surface) Class 3: Average burn time less than 3.5 seconds Samples resulting in a designation of class 1 or 2 meet the requirements of the standard if the sample is designated as class 3, Rapid and Intense burning	

<b>Splash Resistance-ASTM F1862</b> <i>ASTM F1862/F1862M-2017</i>	<b>O2000963-1</b> <u>Sample Particulars</u> : 1ST LAYER 25 GSM 2ND LAYER 40 GSM 3RD LAYER 25 GSM 4TH LAYER 25 GSM
Result at 160mmHg	Pass

<b>Particulate Filtration Efficiency at 0.3Microns-A</b>	<b>O2000963-1</b>
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ASTM F2299/F2299M-03 : 2017

**Sample Particulars : 1ST LAYER 25 GSM 2ND LAYER 40  
GSM 3RD LAYER 25 GSM 4TH LAYER 25 GSM**

Percentage

99.9

Particulate Filtration Efficiency Test

Test Side : Face Side (Outside)

Area Tested : 33.17cm<sup>2</sup>

Particle Size : 0.3µm

Laboratory Condition : 21°C, 50%RH

\*\* Test(s) not covered under NABL Scope.

- End of Report -

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