TEST REPORT NO: FM/TITSC/0620/725

Viscose Fabric

Date-05/08/2020
APPLICANT
M/S GRASIM INDUSTRIES LIMITED PULP & FIBRE INNOVATION CENTRE,
Plot No. 1 & 1- A/1, MIDC Taloja / Tal. Panvel,
Dist. Raigad 410208, India
9122 27405924 (D) + 91 8691029699,+91 9723550773
GST NO:27AAACG4464B1ZY
PAN NO. AAACG4464B
ATTN. MR. Vishwajit Juika

Sample Description : Viscose Fabric
[Marked as DM-610(100% AM Viscose fabric)]

Method of Application Details : 100% AM finished /coated viscose fabric

Testing time interval : (10 min, 1 hour, 2 hours, 2 hours & 25 mins, 4 hours, 12 hours,
24 hours)

No. of samples received : 1 pieces (1 meterx1 meter)

Standard : ISO 18184 or similar method

Style : Square

Colour : Aqua Blue

TEST CONDUCTED: AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

AUTHORISED BY
FOR TECHNICAL & INNOVATIVE AND TEXTILE CENTER(TITSC)

(A.K SINHA)
LAB MANAGER
TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

Antiviral test (ISO 18184)

**Name of the test**
Anti-viral activities of the Fabric Surface

**Name of test protocol:**
ISO 18184 or similar method

**Test Organisms used for evaluating Antiviral activity:**
“SARS CoV-2”/Covid-19

**Test conditions:**
- Contact time: (10 min, 1 hour, 2 hours, 2 hours & 25 mins, 4 hours, 12 hours, 24 hours)
- Incubation Temperature: 37°C for Bacteria
- Media and Reagent: Agar media

### Test Report - Anti viral Activities of Fabric surface

<table>
<thead>
<tr>
<th>Antiviral activity of the surface SARS COVID-2 (Covid-19)</th>
<th>CFU control</th>
<th>CFU sample</th>
<th>Log Reduction / Difference</th>
<th>Percentage of Reduction of virus activities</th>
<th>Viral Activities (Qualitative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>6.35x10⁵</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 min after application</td>
<td>6.35x10⁵</td>
<td>5.56x10⁵</td>
<td>0.05</td>
<td>12.34%</td>
<td>Viral activity found</td>
</tr>
<tr>
<td>10 mins</td>
<td>6.35x10⁵</td>
<td>3.95x10⁵</td>
<td>0.20</td>
<td>37.68%</td>
<td>Viral activity found</td>
</tr>
<tr>
<td>1 hours</td>
<td>6.35x10⁵</td>
<td>2.00x10⁵</td>
<td>0.50</td>
<td>68.42%</td>
<td>Viral activity found</td>
</tr>
<tr>
<td>2 hours</td>
<td>6.35x10⁵</td>
<td>6.41x10⁴</td>
<td>0.99</td>
<td>89.89%</td>
<td>Viral activity found</td>
</tr>
<tr>
<td>2 hours &amp; 25 mins</td>
<td>6.84x10⁵</td>
<td>1.36x10⁵</td>
<td>3.70</td>
<td>99.98%</td>
<td>No Viral activity found</td>
</tr>
<tr>
<td>4 hours</td>
<td>6.84x10⁵</td>
<td>6.80x10¹</td>
<td>4.00</td>
<td>99.99%</td>
<td>No Viral activity found</td>
</tr>
<tr>
<td>12 hours</td>
<td>6.84x10⁵</td>
<td>-</td>
<td>5.83</td>
<td>100%</td>
<td>No Viral activity found</td>
</tr>
<tr>
<td>24 hours</td>
<td>6.84x10⁵</td>
<td>-</td>
<td>5.83</td>
<td>100%</td>
<td>No Viral activity found</td>
</tr>
</tbody>
</table>

**Conclusion:**
It is noted that no viral activities are found after 2 hours & 25 mins i.e. all virus SARS-CoV-2 (COVID-19) killed /Neutralized. The Viscose Fabric material passes the test after 2 hours & 25 mins on Viscose Fabric [Marked as DM-610(100% AM Viscose fabric)] tested as per given specification.

**Note:**
1. Results related with only sample submitted to TITSC test lab.
2. Sample preserve for 1 month from the date of report issued.
3. This report only represents the sample tested and not for legal action.

(A.K. Sinha)