



TEST REPORT

NUMBER: BGD21000207

DATE: 24-Nov-2021

APPLICANT : **Mediatray LLC**  
2420 W.McNichols Rd. Detroit,  
MI 45221 USA

ATTN : Valerio della Porta

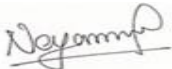
Sample Description : Cloth respirator with filter and head strap

Applicant Provided Care Instructions:

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Date Received/Date Test Started : 17-Nov-2021  
Date received Test Request Form : 17-Nov-2021  
Testing Period : 17-Nov-2021 To 24-Nov-2021  
Rating : -  
Sample Name : Fabric Mask  
Size : -  
Colour : -  
Standard : -  
Order No : -  
Style No : -  
Buyer Name : Self Reference  
Manufacturer's Name : -  
Agent Name : -  
No Of Sample : 40 Pieces  
Product End Use : -  
Brand Name : -  
Batch No : -  
Origin : -  
Country Of Destination : -  
Fabric Type : -  
Order Quantity : -  
Ref. : -

AUTHORIZED BY  
FOR ITS Labtest Bangladesh Ltd. [Textiles - Dhaka]



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COUNTRY BUSINESS LINE LEADER, SOFTLINES

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

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**CONCLUSION:**

|                                   |   |
|-----------------------------------|---|
| Particulate Filtration Efficiency | M |
| Inhalation Resistance             | M |
| Exhalation Resistance             | M |
| Sub Micron Particulate Filtration | M |

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Note : M = Meet Buyer's Requirement      F = Below Buyer's Requirement  
# = No Specified Requirement              - = Did Not Perform  
N/A = Not Applicable                        \* = See Remark  
C = Conform Label

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(TEST CONDUCTED (AS REQUESTED BY THE APPLICANT))

**1. Particulate Filtration Efficiency**

(TEB-APR-STP-0059, NIOSH 42 CFR 84.181)

| Specimen No. | Flow Rate (L/min) | Initial Filter Resistance (mmH <sub>2</sub> O) | Max. Allowable Leakage (%) | Initial Leakage (%) | Max. Leakage (%) | Filtration Efficiency (%) | Requirement | Result |
|--------------|-------------------|------------------------------------------------|----------------------------|---------------------|------------------|---------------------------|-------------|--------|
| 1            | 85.9              | 24.3                                           | 5.00                       | 4.7                 | 4.7              | 95.3                      | 95%         | Pass   |
| 2            | 85.8              | 23.5                                           | 5.00                       | 3.3                 | 3.3              | 96.7                      | 95%         | Pass   |
| 3            | 85.9              | 26.0                                           | 5.00                       | 4.6                 | 4.6              | 95.4                      | 95%         | Pass   |
| 4            | 85.9              | 23.7                                           | 5.00                       | 4.8                 | 4.8              | 95.2                      | 95%         | Pass   |
| 5            | 84.9              | 23.1                                           | 5.00                       | 3.3                 | 3.3              | 96.7                      | 95%         | Pass   |
| 6            | 84.7              | 24.3                                           | 5.00                       | 4.4                 | 4.4              | 95.6                      | 95%         | Pass   |
| 7            | 84.9              | 23.8                                           | 5.00                       | 4.6                 | 4.6              | 95.4                      | 95%         | Pass   |
| 8            | 85.8              | 24.5                                           | 5.00                       | 4.3                 | 4.3              | 95.7                      | 95%         | Pass   |
| 9            | 84.9              | 24.3                                           | 5.00                       | 3.8                 | 3.8              | 96.2                      | 95%         | Pass   |
| 10           | 84.9              | 24.5                                           | 5.00                       | 3.9                 | 3.9              | 96.1                      | 95%         | Pass   |
| 11           | 84.9              | 23.6                                           | 5.00                       | 3.7                 | 3.7              | 96.3                      | 95%         | Pass   |
| 12           | 84.9              | 24.8                                           | 5.00                       | 4.2                 | 4.2              | 95.8                      | 95%         | Pass   |
| 13           | 85.4              | 23.0                                           | 5.00                       | 5.0                 | 5.0              | 95.0                      | 95%         | Pass   |
| 14           | 84.5              | 23.8                                           | 5.00                       | 4.8                 | 4.8              | 95.2                      | 95%         | Pass   |
| 15           | 84.9              | 21.6                                           | 5.00                       | 4.7                 | 4.7              | 95.3                      | 95%         | Pass   |
| 16           | 84.9              | 24.4                                           | 5.00                       | 4.9                 | 4.9              | 95.1                      | 95%         | Pass   |
| 17           | 85.2              | 23.6                                           | 5.00                       | 4.3                 | 4.3              | 95.7                      | 95%         | Pass   |
| 18           | 85.4              | 23.3                                           | 5.00                       | 4.2                 | 4.2              | 95.8                      | 95%         | Pass   |
| 19           | 85.6              | 21.4                                           | 5.00                       | 5.0                 | 5.0              | 95.0                      | 95%         | Pass   |
| 20           | 85.9              | 21.2                                           | 5.00                       | 5.0                 | 5.0              | 95.0                      | 95%         | Pass   |

**2. Inhalation Resistance:**

(TEB-APR-STP-0007)

| Inhalation Resistance (mm H <sub>2</sub> O) | As Received | Requirement             |
|---------------------------------------------|-------------|-------------------------|
| Specimen 1                                  | 7.8         | ≤35 mm H <sub>2</sub> O |
| Specimen 2                                  | 7.2         |                         |
| Specimen 2                                  | 7.4         |                         |
| Overall Result                              | Pass        |                         |

(TEST CONDUCTED (AS REQUESTED BY THE APPLICANT))

**3. Exhalation Resistance:**

(TEB-APR-STP-0003)

| Exhalation Resistance<br>(mm H <sub>2</sub> O) | As Received | <u>Requirement</u>      |
|------------------------------------------------|-------------|-------------------------|
| Specimen 1                                     | 14.3        | ≤25 mm H <sub>2</sub> O |
| Specimen 2                                     | 14.9        |                         |
| Specimen 3                                     | 13.6        |                         |
| Overall Result                                 | Pass        |                         |

**4. Sub Micron Particulate Filtration**(ASTM F2100-19<sup>e1</sup>, Section 9.3, Testing Refer to ASTM F2299/F2299M-17): Particle size in aerosol: 0.1 µm, Aerosol: PSL, Test area: 60 cm<sup>2</sup>, Sampling time: 1 min.

| Tested<br>Sample/Component | Result (%) | <u>Requirement</u> |
|----------------------------|------------|--------------------|
| Specimen 1                 | 95.3       | ≥95%               |
| Specimen 2                 | 95.2       |                    |
| Specimen 3                 | 95.1       |                    |
| Specimen 4                 | 95.3       |                    |
| Specimen 5                 | 95.2       |                    |
| Average                    | 95.2       |                    |

## END OF THE TEST REPORT ##

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