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Date : MAY 03, 2021

ACEGREEN ECO-MATERIAL TECHNOLOGY CO., LTD.

NO. 50, LANE 20, SECTION 1, NANTONG RD., ERSHUI TOWNSHIP, CHANGHUA COUNTY 530, TAIWAN

The following merchandise was submitted and identified by the applicant as:

<u>Product Description:</u> High-efficiency hydro triboelectrification(Polypropylene)

Style/Item No.: ACE-MW-001

Manufacturer/Vendor: ACEGREEN ECO-MATERIAL TECHNOLOGY CO., LTD.

Country of Origin: TAIWAN

Additional Information: Brand: ACEGREEN

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: 1. ASTM F2101:2019

2. EN 14683:2019 Annex C

3. ASTM F2299/F2299M-03 (Reapproved 2017)

<u>Test Method & Result:</u> ---See following sheet(s)---

Date of Receipt: APR. 08, 2021

<u>Testing Period:</u> APR. 08, 2021 ~ MAY 03, 2021

Note: 1. The ASTM F2101:2019 and EN 14683:2019 Annex C tests were performed by O.S.H. CO., LTD. Respirator Test Center.

2. The ASTM F2299/F2299M-03 (Reapproved 2017) testing was performed by SGS Hong Kong Ltd.

Signed for and on bef SGS Tajwan Ltd.

Sturm Su Asst. Manager

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SGS Taiwan Ltd

No.127, Wu Kung Road, New Taipei Industrial Park, New Taipei City, Taiwan /新北市新北產業園區五工路 127 號 t (886-2) 2299-3279 f (886-2) 2299-2920 www.tw.sgs.com



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Test Method & Result:

1. ASTM F2101:2019:

Test Methods	Test Item	Test Results	
Testing Sample Number: 5		01	>99.9
2. Test surface : Either	CFU (BFE) (%)	02	>99.9
3. Test Area: 49 cm ²		02	799.9
4. Flow rate during testing: 28.3 Liter/min		03	>99.9
5. Counts of positive control: 2160 CFU			
6. Counts of negative control: 0 CFU		04	>99.9
7. Average size: 2.9 μm			
. Sample Model: BFE-1100409001		05	>99.9

6 Stage	Colonies count of each stage						
Sample No.	Stage 1 (7 µm)	Stage 2 (4.7 μm)	Stage 3 (3.3 μm)	Stage 4 (2.1 μm)	Stage 5 (1.1 μm)	Stage 6 (0.65 μm)	Total colony count (CFU)
01	0	0	0	0	0	0	0
02	0	0	0	0	0	0	0
03	0	0	0	0	0	0	0
04	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0

2. EN 14683:2019 Annex C:

Test Methods	Test Item		Test Results (mm H ₂ O/cm ²)	Test Results (Pa/cm ²)
1. Testing Sample Number: 5		01	2.78	27.24
 Testing sample Number: 3 Test Flow Rate: 8.03 Liter/min Pre-Conditioning: Minimum of 4 hours at (21±5) °C and (85±5) % relative humidity. Sample Model: AEP-1100409001 	Differential pressure	02	2.60	25.48
		03	2.95	28.91
		04	2.56	25.09
		05	3.02	29.60
		Avg.	2.78	27.26

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3. ASTM F2299/F2299M-03 (Reapproved 2017)

Test Results: Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres

Test Side : Either side

Pre-Conditioning : Minimum of 4 hours at 21±3°C and 30-50±5% R.H.

Test Condition : $21\pm3^{\circ}$ C and $50\pm5\%$ R.H.

Test Area : 41.61 cm² Face Velocity : 9.75 cm/s

Particle Size : 0.1 μm (+/-15% CV) Latex Microspheres

Average Filtration Efficiency : 99.899 Standard Deviation : 0.02

Sample Model : T32120250219SN

Test Specimen	Pressure Drop	Test Article	Average Control	Filtration
	(inH ₂ O)	Counts	Counts	Efficiency (%)
1	0.204	412	295062	99.86
2	0.233	363	286445	99.87
3	0.226	301	321636	99.91
4	0.249	245	263692	99.91
5	0.223	278	291888	99.90

Note: The procedure incorporated a non-neutralized challenge. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks.

Note:

- 1. The test report merely reflects the test results of the consigned matters of the client and is not a certification.
- 2. The content of this report is invalid if it is not presented as the entire report.

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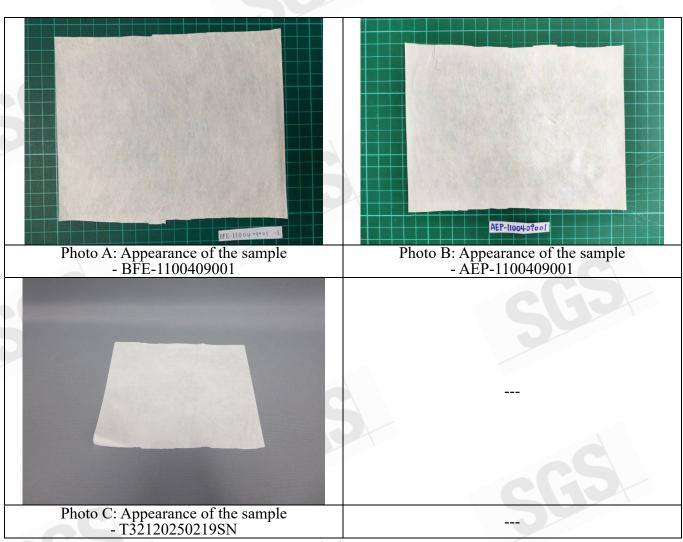
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– Picture(s) –



---End of Report---

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