



Test Report

Date : 2020-04-06
No. : HC20030475

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Applicant(Code:01325237) : Dian E Grid Co Limited
82/F International Commerce Centre
1 Austin Road West
Kln HK

Description of Sample(s) : One submitted sample said to be 一次性使用醫用口罩.
Supplier / Manufacturer : Hubei Mingerkang Health & Safety
Appliances Co., Ltd.
Country of Origin : 中國湖北
Country of Destination : 香港及海外
Sample Receiving Condition: In plastic bag under
ambient temperature

Date Sample(s) Received : 2020-03-13

Date Tested : 2020-03-16 to 2020-04-06

Investigation Requested : Performance Test as per ASTM F2100
1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)
2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %
3. Air Exchange Pressure 空氣交換壓力差
4. Synthetic Blood Penetration 合成血液穿透性
5. Flammability to Class 1 可燃性



LEE Paul
Authorized Signatory
Chemical and Food Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

Note: When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.



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Method(s) Used:

1. ASTM F2100-2019 9.1 & ASTM F2101-2019
2. ASTM F2100-2019 9.3 & ASTM F2299-2017
3. ASTM F2100-2019 9.2 & EN 14683:2019 Annex C
4. ASTM F2100-2019 9.4 & ASTM F1862-2017
5. 16 CFR 1610

Test Result(s):

1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)

Specimen(s)	一次性使用醫用口罩
1	99.9%
2	99.9%
3	99.7%
4	99.8%
5	99.8%

Notes :
- Control average 對照組的平均菌落數 : 1775 CFU
- Mean particle size 平均粒徑 : 3.0µm
- Testing side 測試面 : outside of specimen 外側
- Testing area 測試面積 : 39.5 cm²

2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %
(0.1µm PSL ; Flow rate : 28.2 Litre/min)

Specimen(s)	一次性使用醫用口罩
1	97.56%
2	97.60%
3	97.69%
4	97.55%
5	97.62%
Average	97.60%

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3. Air Exchange Pressure 空氣交換壓力差

Specimen(s)	一次性使用醫用口罩
1	3.4 mmH ₂ O/cm ²
2	3.3 mmH ₂ O/cm ²
3	3.6 mmH ₂ O/cm ²
4	3.3 mmH ₂ O/cm ²
5	3.4 mmH ₂ O/cm ²

Notes :
- 1mmH₂O = 9.8Pa
- Air Exchange Pressure takes 5 masks for testing

4. Synthetic Blood Penetration 合成血液穿透性 (Pressure : 80mmHg)

Specimen(s)	一次性使用醫用口罩
1	None Seen 無穿透
2	None Seen 無穿透
3	None Seen 無穿透
4	None Seen 無穿透
5	None Seen 無穿透
6	None Seen 無穿透
7	None Seen 無穿透
8	None Seen 無穿透
9	None Seen 無穿透
10	None Seen 無穿透
11	None Seen 無穿透
12	None Seen 無穿透
13	None Seen 無穿透

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5. Flammability to Class 1 可燃性

Specimen(s)	一次性使用醫用口罩
External surface 外層測試面 -1	Ignited, but extinguished 可燃點，但可自然熄滅
External surface 外層測試面 -2	Ignited, but extinguished 可燃點，但可自然熄滅
External surface 外層測試面 -3	Ignited, but extinguished 可燃點，但可自然熄滅
External surface 外層測試面 -4	Ignited, but extinguished 可燃點，但可自然熄滅
External surface 外層測試面 -5	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -1	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -2	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -3	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -4	Ignited, but extinguished 可燃點，但可自然熄滅
Interior surface 內層測試面 -5	Ignited, but extinguished 可燃點，但可自然熄滅

Photo(s):



******* End of Test Report *******