TEST REPORT

Technical Report: (5221)036-0373-R1 February 25, 2021

The report is amendment of and supersedes the previous report (5221)036-0373 dated February 22, 2021

Date Received: February 5, 2021

Corum Ip
Trend Wealth Industrial Limited
Unit B, 1/F, Eastern Industrial Building,
42/50 Kwai Ting Road, Kwai Chung, N.T

Sample Description: Sample(s) received is/are stated to be:
3D Disposable Surgical Mask

Color:	/	Style No(s):	/
Order No.:	/	PO No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	Trend Wealth Industrial Limited	Supplier Reference:	/
Buyer:	/	Country of Origin:	Hong Kong
Test Period:	February 5, 2021 – February 22, 2021	Country of Destination:	/
Fiber Content:	/		
Care Instruction:	/		

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Client's requirement: ASTM F2100 Level 3		
Synthetic Blood Fluid Penetration Resistance	DATA	

MD

REMARK

If there are questions or concerns on this report, please contact: (852) 2331 0330
analytical-enquiry@hk.bureauveritas.com

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Photo of the Submitted Sample

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY:

ITEM	ITEM DESCRIPTION
1	Blue mask

TEST RESULT

Synthetic Blood Fluid Penetration Resistance

Test method

This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5 cm. A test volume of 2 mL of synthetic blood was employed using the targeting plate method.

This test method was designed to comply with ASTM F1862 and ISO 22609 (as referenced in EN 14683:2019 and AS4381:2015) with the following exception: ISO 22609 requires testing to be performed in an environment with a temperature of 21 ±5ºC and a relative humidity of 85 ± 10%. Instead, testing was performed at ambient conditions within one minute of removal from the environment chamber held at those parameters.

Reference Standards Item	:	ASTM F 2100
Test method used	:	ASTM F1862
Environmental conditions	:	24 ºC , 52%RH

Test parameters:

Pressure (mmHg)	Velocitiy (cm/s)	Time (s)
160	635	0.57

Results:

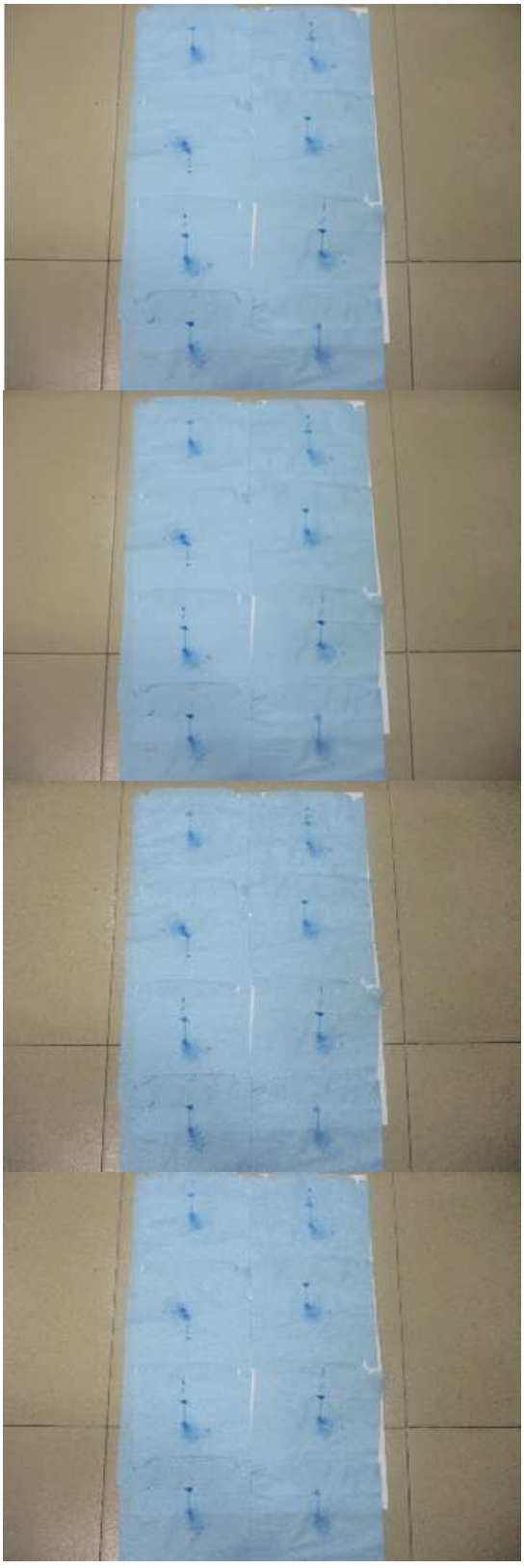
The samples were tested under pressure of 160mmHg, no synthetic blood penetration on the medial side

Remark:

1. The sample is tested as received.
2. The analysis was performed by a BV assessed competent subcontractor laboratory.

Sample After Tested image

Face side



Back side

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APPENDIX

		ASTM F 2100-2019		
		Level 1	Level 2	Level 3
Barrier Tests	Bacterial Filtration Efficiency (BFE) % ASTM 2101/EN14683	≥95	≥98	
	Particle Filtration Efficiency (PFE)% ASTM F2299	≥95	≥98	
	Synthetic Blood Fluid Pressure ASTM F1862/ISO 22609	80 mmHg	120 mmHg	160 mmHg
Safety Tests	Microbial Cleanliness ISO 11737-1	Not required		
	Flammability 16 CFR part 1610	Class 1		
Physical Tests	Differential Pressure EN 14683 (Pa/cm^2)	<5.0 mm H_20/cm^2	<6.0 mm H_20/cm^2	