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STATEMENT

To whom it may concern,

This is to state that : the 60 samples from Guangdong Kangju Medicine Science Co., Ltd have been received and now are open for testing and certification of PPE #2 (EN 149 Filtering half mask to protect against particles. The job No. is 33317037.1.

The formal contract is signed and approved.

Centre d'Essais et de Certification / Testing and Certification Center
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APAVE SUDEUROPE SAS
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Support you
on EU certification according to
PPE Regulation 2016/425



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Laboratory #: 838561-20
Report Date: June 24, 2020
Received Date: June 17, 2020

Attention: Chengying Yao
Specimen: #1: Medical Masks

TEST REPORT

One specimen, consisting of Medical Masks, was submitted to be tested for synthetic blood penetration differential pressure and flame spread to determine acceptability with level 1 barrier classification under ASTM F2100-19 requirements.

Note: This report contains ONLY results for 3 of the five requirements as per ASTM F2100-19. Unless all the tests are performed, final overall performance level cannot be achieved for the submitted medical mask.

Medical Face Mask Material Requirements

Characteristic	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier	Summary Results
Bacterial Filtration Efficiency, %	≥95	≥98	≥98	Not performed
Differential Pressure, mm H ₂ O/cm ²	<5.0	<6.0	<6.0	Pass any Level
Sub-Micron Particulate Filtration Efficiency at 0.1 micron, %	≥95	≥98	≥98	Not performed
Synthetic Blood Penetration minimum pressure in mmHg for pass result	80	120	160	Pass Level1
Flame Spread	Class 1	Class 1	Class 1	Pass any Level
OVERALL PERFORMANCE LEVEL	Incomplete			

This report is subject to the following terms and conditions: 1. This report relates only to the specimen provided and there is no representation or warranty that it applies to similar substances or materials or the bulk of which the specimen is a part. 2. The content of this report is for the information of the customer identified above only and it shall not be reprinted, published or disclosed to any other party except in full. Prior written consent from Cambridge Materials Testing Limited is required. 3. The name Cambridge Materials Testing Limited shall not be used in connection with the specimen reported on or any substance or materials similar to that specimen without the prior written consent of Cambridge Materials Testing Limited. 4. Neither Cambridge Materials Testing Limited nor any of its employees shall be responsible or held liable for any claims, loss or damage arising in consequence of reliance on this report or any defects, errors or omissions in the preparation or the tests conducted. 5. Specimens are retained 4 weeks, test reports and test data are retained 7 years from date of final test report and then disposed of, unless instructed otherwise in writing. 6. When making a statement of conformity to a specification or standard the report will make the statement of conformity based on the absolute value of the test result. Test Report Template Revision August 20, 2019

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Cambridge Materials Testing Limited
Per Steve Brown
Authorized By Stephen Brown
Per Anamaria Rojas Pineda
Technician, Anamaria Rojas-Pineda



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Laboratory # 838
11713531 Cans

DIFFERENTIAL PRESSURE

EN 14683:2019 edition Annex C

Each specimen was conditioned for 4 hours minimum at 21±5 C and 85±5 % R.H.

Requirements ASTM F2100-19:
Differential Pressure (mmH₂O/cm²)
Level 1 Barrier: <5.0
Level 2 Barrier: <6.0
Level 3 Barrier: <6.0

RESULTS

Specimen #	Differential Pressure (mm H ₂ O/cm ²)	Specimen (Pass/Fail)	FINAL RESULT
1-1	3.5	Pass	PASS for ANY LEVEL
1-2	2.7	Pass	
1-3	3.9	Pass	
1-4	3.8	Pass	
1-5	3.6	Pass	
Average	3.5		

Mask Surface Area: 25mm diameter (x5 test areas) (4.9 cm²)
Air Flow Rate: 8 L/min
Mask Location Specimen taken from: Each specimen from middle of the mask (X 5 specimens).

Note: For a test plan of 5 specimens, no failure is allowed for an Acceptable Quality Limit of 4.0%.



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Laboratory # 838561-20
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SYNTHETIC BLOOD PENETRATION

ASTM F1862/F1862M-17 at 80 mmHg pressure

RESULTS

Specimen #	Test Pressure (mmHg)	Total Number of Specimens	Number of Pass Specimens	FINAL RESULT
1	80	32	31	Pass for Level 1

Note: Acceptable Quality Limit of 4.0% is met for single sampling plan when 29 or more of the 32 tested specimens show pass results.

FLAME SPREAD

The specimen, consisting of 6 masks, was tested in accordance to 16 CFR 1610 (1-1-16 Edition).

Specimen #	Specimen #	RESULT	CONCLUSION
#1	1-1	IBE	Classified as Class 1 PASS for ANY LEVEL
	1-2	IBE	
	1-3	IBE	
	1-4	IBE	
	1-5	IBE	

IBE: Ignited but extinguished

Test: Flame Resistance 45° angle test. One-Second Flame Impingement.
Type of fabric: Without a raised fiber surface
Surface tested: Face
Type of test: Original State
Direction tested: Length
Testing Conditioned: Specimens conditioned at 105°C for 30 min, then placed in desiccator
Requirements: The flame spread time for textile products without a raised fibre surface must be greater than 3.5 seconds.

Note: For a test plan of 5 specimens, no failure is allowed for an Acceptable Quality Limit of 4.0%.

Note: Original State - Class 1