

1. Bacterial filtration efficiency

 Test method : ASTM F2100-19e1 Clause 9.1
 Requirement : Level 1: $\geq 95\%$
M001

	<u>Specimen 1</u>	<u>Specimen 2</u>	<u>Specimen 3</u>	<u>Specimen 4</u>	<u>Specimen 5</u>
<i>B</i> (%)	99.9	99.9	99.7	99.8	99.9
Conclusion	Pass				

2. Differential Pressure

 Test method : ASTM F2100-19e1 Clause 9.2
 Requirement : Level 1: $< 5.0 \text{ mmH}_2\text{O}/\text{cm}^2$
M001

Specimen	Pressure ($\text{mmH}_2\text{O}/\text{cm}^2$)					Mean
	Area 1	Area 2	Area 3	Area 4	Area 5	
1	2.5	2.6	2.8	3.1	2.7	2.7
2	2.7	2.7	2.9	2.8	2.9	2.8
3	2.7	2.8	3.2	3.1	2.5	2.9
4	2.5	2.9	2.9	2.7	2.9	2.8
5	2.7	2.7	2.8	2.9	2.7	2.8
Conclusion	Pass					

3. Sub-micron particulate filtration efficiency at 0.1 micron*

 Test method : ASTM F2100-19e1 Clause 9.3
 Requirement : Level 1: $\geq 95\%$
M001

	<u>Specimen 1</u>	<u>Specimen 2</u>	<u>Specimen 3</u>	<u>Specimen 4</u>	<u>Specimen 5</u>
<i>P</i> (%)	97.8	98.8	98.3	98.5	97.7
Conclusion	Pass				

Remark: * = The test was subcontracted to other lab

4. Resistance to Penetration by Synthetic Blood

Test method : ASTM F2100-19e1 Clause 9.4
 Requirement : Level 1 : ≥ 80mm Hg no penetration
 Test condition : 80mm Hg

M002

Specimen	Observation	Specimen	Observation	Specimen	Observation	Specimen	Observation
1	N.P.	9	N.P.	17	N.P.	25	N.P.
2	N.P.	10	N.P.	18	N.P.	26	N.P.
3	N.P.	11	N.P.	19	N.P.	27	N.P.
4	N.P.	12	N.P.	20	N.P.	28	N.P.
5	N.P.	13	N.P.	21	N.P.	29	N.P.
6	N.P.	14	N.P.	22	N.P.	30	N.P.
7	N.P.	15	N.P.	23	N.P.	31	N.P.
8	N.P.	16	N.P.	24	N.P.	32	N.P.
Conclusion				Pass			

Remark: N.P. = no penetration P.F. = penetration was found

5. Flammability

Test method : ASTM F2100-19e1 Clause 9.5
 Requirement : Level 1: Class 1

M001

Fabric type Plain surface
 Conditioning Sample as received
 Burn side Face
 Burn direction Length
 Specimen 1 DNI
 Specimen 2 DNI
 Specimen 3 DNI
 Specimen 4 DNI
 Specimen 5 DNI
 Average DNI

Classification : Class 1, Normal flammability

Remark: DNI = Did not ignite.
 IBE = Ignite but extinguished.
 _._sec = Actual burn time in seconds measured and recorded by the timing device.