

Test Report

SL52105255368901TX

Date: April 20, 2021

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WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD
NO.1599, SOUTH 3RD RING ROAD, SHENGZE,WUJIANG,SUZHOU,JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Disposable Medical Protective Clothing (EO sterilization)

Composition : (A) PP+PE

Sample Color : (A) white

Style No. : TTK-A01

Model No. : M

Lot No. : TTK-20200816

Manufacturer : WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD

Country of Origin : China

Exported to : Europe and America

Other Info. : Sample Dimension: 175 Lot Size: 3

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 07, 2021

Testing Period : Apr 07, 2021 - Apr 20, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion: the provided sample meets ANSI/AAMI PB70-2012 Level 3.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

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Personal Protective Equipment - Liquid Barrier Performance and Classification of Protective apparel and Drapes Intended for Use in Health Care Facilities
ANSI/AAMI PB70-2012

Section 4.2.1 Water Resistance: Impact Penetration Test
(AATCC 42-2017; Use the grade 989 blotter paper)

As received

Weight of blotter gained (g)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	0.0	0.0	0.0	0.0	0.0
2#	0.0	0.0	0.0	0.0	0.0
3#	0.0	0.0	0.0	0.0	0.0
4#	0.0	0.0	0.0	0.0	0.0
5#	0.0	0.0	0.0	0.0	0.0
6#	0.0	0.0	0.0	0.0	0.0
7#	0.0	0.0	0.0	0.0	0.0
8#	0.0	0.0	0.0	0.0	0.0
9#	0.0	0.0	0.0	0.0	0.0
10#	0.0	0.0	0.0	0.0	0.0
11#	0.0	0.0	0.0	0.0	0.0
12#	0.0	0.0	0.0	0.0	0.0
13#	0.0	0.0	0.0	0.0	0.0
14#	0.0	0.0	0.0	0.0	0.0
15#	0.0	0.0	0.0	0.0	0.0
16#	0.0	0.0	0.0	0.0	0.0
17#	0.0	0.0	0.0	0.0	0.0
18#	0.0	0.0	0.0	0.0	0.0
19#	0.0	0.0	0.0	0.0	0.0
20#	0.0	0.0	0.0	0.0	0.0
21#	0.0	0.0	0.0	0.0	0.0
22#	0.0	0.0	0.0	0.0	0.0
23#	0.0	0.0	0.0	0.0	0.0
24#	0.0	0.0	0.0	0.0	0.0
25#	0.0	0.0	0.0	0.0	0.0
26#	0.0	0.0	0.0	0.0	0.0
27#	0.0	0.0	0.0	0.0	0.0
28#	0.0	0.0	0.0	0.0	0.0
29#	0.0	0.0	0.0	0.0	0.0
30#	0.0	0.0	0.0	0.0	0.0
31#	0.0	0.0	0.0	0.0	0.0
32#	0.0	0.0	0.0	0.0	0.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)

Remark:

- Level 1: all critical zone components shall have a blotter weight gain of no more than 4.5grams(g)
- Level 2: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)
- Level 3: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)
- Relative expanded uncertainty of measurement is 3.9%

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Section 4.2.1 Water Resistance: Hydrostatic Pressure Test

(AATCC 127-2018; Hydrostatic Head; Rate of increase of water pressure: 60mbar/min; temp. of distilled water: 21°C, fabric face side of water)

As received

Water Column (cmH ₂ O)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	>50.0	>50.0	>50.0	>50.0	>50.0
2#	>50.0	>50.0	>50.0	>50.0	>50.0
3#	>50.0	>50.0	>50.0	>50.0	>50.0
4#	>50.0	>50.0	>50.0	>50.0	>50.0
5#	>50.0	>50.0	>50.0	>50.0	>50.0
6#	>50.0	>50.0	>50.0	>50.0	>50.0
7#	>50.0	>50.0	>50.0	>50.0	>50.0
8#	>50.0	>50.0	>50.0	>50.0	>50.0
9#	>50.0	>50.0	>50.0	38.4	>50.0
10#	>50.0	>50.0	>50.0	>50.0	>50.0
11#	>50.0	>50.0	>50.0	33.5	>50.0
12#	>50.0	>50.0	>50.0	36.3	>50.0
13#	>50.0	>50.0	>50.0	>50.0	>50.0
14#	>50.0	>50.0	>50.0	35.8	>50.0
15#	>50.0	>50.0	>50.0	>50.0	>50.0
16#	>50.0	>50.0	>50.0	>50.0	>50.0
17#	>50.0	>50.0	>50.0	>50.0	>50.0
18#	>50.0	>50.0	>50.0	35.0	>50.0
19#	>50.0	>50.0	>50.0	>50.0	>50.0
20#	>50.0	>50.0	>50.0	>50.0	>50.0
21#	>50.0	>50.0	>50.0	41.0	>50.0
22#	>50.0	>50.0	>50.0	>50.0	>50.0
23#	>50.0	>50.0	>50.0	>50.0	>50.0
24#	>50.0	>50.0	>50.0	>50.0	>50.0
25#	>50.0	>50.0	>50.0	>50.0	>50.0
26#	>50.0	>50.0	>50.0	47.1	>50.0
27#	>50.0	>50.0	>50.0	>50.0	>50.0
28#	>50.0	>50.0	>50.0	>50.0	>50.0
29#	>50.0	>50.0	>50.0	>50.0	>50.0
30#	>50.0	>50.0	>50.0	>50.0	>50.0
31#	>50.0	>50.0	>50.0	27.2	>50.0
32#	>50.0	>50.0	>50.0	30.8	>50.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (23/32)	Pass (32/32)

Remark:

- Level 2: all critical zone components shall have a hydrostatic resistance of at least 20cmH₂O
- Level 3: all critical zone components shall have a hydrostatic resistance of at least 50cmH₂O
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)
- Relative expanded uncertainty of measurement is 4.6%

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Barrier performance of each component and final classification commended

	Impact Penetration Test AATCC 42(g)	Hydrostatic Pressure Test AATCC 127(cmH ₂ O)	Resistance to Bacteriophage Phi-X174 ASTM F 1671	Level	Final classification
Area A (Critical zone-front)	Level 3	Level 3	/	Level 3	Level 3
Area B (Critical zone-sleeve)	Level 3	Level 3	/	Level 3	
Area C(Front)	Level 3	Level 3	/	Level 3	
Area D(Back)	Level 3	Level 2	/	Level 2	
Seam between areas C&D	Level 3	Level 3	/	Level 3	

Remark:

- The barrier performance of all critical zone components, including seams and points of attachments, shall be determined;
- The critical zone comprises at least area A and B. The classification of the surgical gown is based on the lower-performing component of the two;
- The back of the surgical gown (area D) may be nonprotective;
- Seams between protective and nonprotective areas have no barrier requirements;
- Seams between two protective areas are required to have at least the barrier performance of the lower-performing area;
- Level 1: Impact Penetration Test-AATCC 42: ≤4.5g;
- Level 2: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥20cmH₂O;
- Level 3: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥50cmH₂O;
- Level 4: Resistance to Bacteriophage Phi-X174-ASTM F 1671: Pass.
- Only test the barrier performance of the sample. Label request, construction and other classed in ANSI/AAMI PB70-2012 is not checked.
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level.
(Accept: 29, Reject: 28)

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Sample Photo



Face

Back

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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Test Report

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Date: April 20, 2021

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WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD
NO.1599, SOUTH 3RD RING ROAD, SHENGZE,WUJIANG,SUZHOU,JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Disposable Medical Protective Clothing (EO sterilization)

Composition : (A) PP+PE

Sample Color : (A) white

Style No. : TTK-A01

Model No. : M

Lot No. : TTK-20200818

Manufacturer : WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD

Country of Origin : China

Exported to : Europe and America

Other Info. : Sample Dimension: 175 Lot Size: 3

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

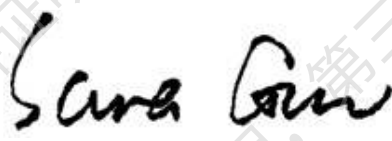
Sample Receiving Date : Apr 07, 2021

Testing Period : Apr 07, 2021 - Apr 20, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion: the provided sample meets ANSI/AAMI PB70-2012 Level 3.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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Test Result

Personal Protective Equipment - Liquid Barrier Performance and Classification of Protective apparel and Drapes Intended for Use in Health Care Facilities

ANSI/AAMI PB70-2012

Section 4.2.1 Water Resistance: Impact Penetration Test

(AATCC 42-2017; Use the grade 989 blotter paper)

As received

Weight of blotter gained (g)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	0.0	0.0	0.0	0.0	0.0
2#	0.0	0.0	0.0	0.0	0.0
3#	0.0	0.0	0.0	0.0	0.0
4#	0.0	0.0	0.0	0.0	0.0
5#	0.0	0.0	0.0	0.0	0.0
6#	0.0	0.0	0.0	0.0	0.0
7#	0.0	0.0	0.0	0.0	0.0
8#	0.0	0.0	0.0	0.0	0.0
9#	0.0	0.0	0.0	0.0	0.0
10#	0.0	0.0	0.0	0.0	0.0
11#	0.0	0.0	0.0	0.0	0.0
12#	0.0	0.0	0.0	0.0	0.0
13#	0.0	0.0	0.0	0.0	0.0
14#	0.0	0.0	0.0	0.0	0.0
15#	0.0	0.0	0.0	0.0	0.0
16#	0.0	0.0	0.0	0.0	0.0
17#	0.0	0.0	0.0	0.0	0.0
18#	0.0	0.0	0.0	0.0	0.0
19#	0.0	0.0	0.0	0.0	0.0
20#	0.0	0.0	0.0	0.0	0.0
21#	0.0	0.0	0.0	0.0	0.0
22#	0.0	0.0	0.0	0.0	0.0
23#	0.0	0.0	0.0	0.0	0.0
24#	0.0	0.0	0.0	0.0	0.0
25#	0.0	0.0	0.0	0.0	0.0
26#	0.0	0.0	0.0	0.0	0.0
27#	0.0	0.0	0.0	0.0	0.0
28#	0.0	0.0	0.0	0.0	0.0
29#	0.0	0.0	0.0	0.0	0.0
30#	0.0	0.0	0.0	0.0	0.0
31#	0.0	0.0	0.0	0.0	0.0
32#	0.0	0.0	0.0	0.0	0.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)

Remark:

- Level 1: all critical zone components shall have a blotter weight gain of no more than 4.5grams(g)
- Level 2: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)
- Level 3: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)

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- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)
- Relative expanded uncertainty of measurement is 3.9%

Section 4.2.1 Water Resistance: Hydrostatic Pressure Test

(AATCC 127-2018; Hydrostatic Head; Rate of increase of water pressure: 60mbar/min; temp. of distilled water: 21°C, fabric face side of water)

As received

Water Column (cmH ₂ O)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	>50.0	>50.0	>50.0	29.2	>50.0
2#	>50.0	>50.0	>50.0	>50.0	>50.0
3#	>50.0	>50.0	>50.0	36.9	>50.0
4#	>50.0	>50.0	>50.0	>50.0	>50.0
5#	>50.0	>50.0	>50.0	>50.0	>50.0
6#	>50.0	>50.0	>50.0	>50.0	>50.0
7#	>50.0	>50.0	>50.0	>50.0	>50.0
8#	>50.0	>50.0	>50.0	>50.0	>50.0
9#	>50.0	>50.0	>50.0	>50.0	>50.0
10#	>50.0	>50.0	>50.0	>50.0	>50.0
11#	>50.0	>50.0	>50.0	44.1	>50.0
12#	>50.0	>50.0	>50.0	>50.0	>50.0
13#	>50.0	>50.0	>50.0	>50.0	>50.0
14#	>50.0	>50.0	>50.0	>50.0	>50.0
15#	>50.0	>50.0	>50.0	>50.0	>50.0
16#	>50.0	>50.0	>50.0	>50.0	>50.0
17#	>50.0	>50.0	>50.0	>50.0	>50.0
18#	>50.0	>50.0	>50.0	>50.0	>50.0
19#	>50.0	>50.0	>50.0	>50.0	>50.0
20#	>50.0	>50.0	>50.0	>50.0	>50.0
21#	>50.0	>50.0	>50.0	>50.0	>50.0
22#	>50.0	>50.0	>50.0	25.9	>50.0
23#	>50.0	>50.0	>50.0	>50.0	>50.0
24#	>50.0	>50.0	>50.0	>50.0	>50.0
25#	>50.0	>50.0	>50.0	>50.0	>50.0
26#	>50.0	>50.0	>50.0	>50.0	>50.0
27#	>50.0	>50.0	>50.0	>50.0	>50.0
28#	>50.0	>50.0	>50.0	38.2	>50.0
29#	>50.0	>50.0	>50.0	>50.0	>50.0
30#	>50.0	>50.0	>50.0	>50.0	>50.0
31#	>50.0	>50.0	>50.0	>50.0	>50.0
32#	>50.0	>50.0	>50.0	>50.0	>50.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (27/32)	Pass (32/32)

Remark:

- Level 2: all critical zone components shall have a hydrostatic resistance of at least 20cmH₂O
- Level 3: all critical zone components shall have a hydrostatic resistance of at least 50cmH₂O
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)

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- Relative expanded uncertainty of measurement is 4.6%

Barrier performance of each component and final classification commended

	Impact Penetration Test AATCC 42(g)	Hydrostatic Pressure Test AATCC 127(cmH ₂ O)	Resistance to Bacteriophage Phi-X174 ASTM F 1671	Level	Final classification
Area A (Critical zone-front)	Level3	Level3	/	Level3	Level3
Area B (Critical zone-sleeve)	Level3	Level3	/	Level3	
Area C(Front)	Level3	Level3	/	Level3	
Area D(Back)	Level3	Level2	/	Level2	
Seam between areas C&D	Level3	Level3	/	Level3	

Remark:

- The barrier performance of all critical zone components, including seams and points of attachments, shall be determined;
- The critical zone comprises at least area A and B. The classification of the surgical gown is based on the lower-performing component of the two;
- The back of the surgical gown (area D) may be nonprotective;
- Seams between protective and nonprotective areas have no barrier requirements;
- Seams between two protective areas are required to have at least the barrier performance of the lower-performing area;
- Level 1: Impact Penetration Test-AATCC 42: ≤4.5g;
- Level 2: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥20cmH₂O;
- Level 3: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥50cmH₂O;
- Level 4: Resistance to Bacteriophage Phi-X174-ASTM F 1671: Pass.
- Only test the barrier performance of the sample. Label request, construction and other classed in ANSI/AAMI PB70-2012 is not checked.
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)

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Sample Photo



Face

Back

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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检测
TESTING
CNAS L0599

Test Report

SL52105255366901TX

Date: April 20, 2021

Page 1 of 5

WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD
NO.1599, SOUTH 3RD RING ROAD, SHENGZE,WUJIANG,SUZHOU,JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Disposable Medical Protective Clothing (EO sterilization)

Composition : (A) PP+PE

Sample Color : (A) white

Style No. : TTK-A01

Model No. : M

Lot No. : TTK-20200820

Manufacturer : WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD

Country of Origin : China

Exported to : Europe and America

Other Info. : Sample Dimension: 175 lot Size:3

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 07, 2021

Testing Period : Apr 07, 2021 - Apr 20, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion: the provided sample meets ANSI/AAMI PB70-2012 Level 3.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

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Personal Protective Equipment - Liquid Barrier Performance and Classification of Protective apparel and Drapes Intended for Use in Health Care Facilities
ANSI/AAMI PB70-2012

Section 4.2.1 Water Resistance: Impact Penetration Test
(AATCC 42-2017; Use the grade 989 blotter paper)

As received

Weight of blotter gained (g)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	0.0	0.0	0.0	0.0	0.0
2#	0.0	0.0	0.0	0.0	0.0
3#	0.0	0.0	0.0	0.0	0.0
4#	0.0	0.0	0.0	0.0	0.0
5#	0.0	0.0	0.0	0.0	0.0
6#	0.0	0.0	0.0	0.0	0.0
7#	0.0	0.0	0.0	0.0	0.0
8#	0.0	0.0	0.0	0.0	0.0
9#	0.0	0.0	0.0	0.0	0.0
10#	0.0	0.0	0.0	0.0	0.0
11#	0.0	0.0	0.0	0.0	0.0
12#	0.0	0.0	0.0	0.0	0.0
13#	0.0	0.0	0.0	0.0	0.0
14#	0.0	0.0	0.0	0.0	0.0
15#	0.0	0.0	0.0	0.0	0.0
16#	0.0	0.0	0.0	0.0	0.0
17#	0.0	0.0	0.0	0.0	0.0
18#	0.0	0.0	0.0	0.0	0.0
19#	0.0	0.0	0.0	0.0	0.0
20#	0.0	0.0	0.0	0.0	0.0
21#	0.0	0.0	0.0	0.0	0.0
22#	0.0	0.0	0.0	0.0	0.0
23#	0.0	0.0	0.0	0.0	0.0
24#	0.0	0.0	0.0	0.0	0.0
25#	0.0	0.0	0.0	0.0	0.0
26#	0.0	0.0	0.0	0.0	0.0
27#	0.0	0.0	0.0	0.0	0.0
28#	0.0	0.0	0.0	0.0	0.0
29#	0.0	0.0	0.0	0.0	0.0
30#	0.0	0.0	0.0	0.0	0.0
31#	0.0	0.0	0.0	0.0	0.0
32#	0.0	0.0	0.0	0.0	0.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (32/32)

Remark:

- Level 1: all critical zone components shall have a blotter weight gain of no more than 4.5grams(g)
- Level 2: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)
- Level 3: all critical zone components shall have a blotter weight gain of no more than 1.0 grams(g)
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)
- Relative expanded uncertainty of measurement is 3.9%

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Section 4.2.1 Water Resistance: Hydrostatic Pressure Test

(AATCC 127-2018; Hydrostatic Head; Rate of increase of water pressure: 60mbar/min; temp. of distilled water: 21°C, fabric face side of water)

As received

Water Column (cmH ₂ O)	Area A (Critical zone-front)	Area B (Critical zone-sleeve)	Area C(Front)	Area D(Back)	Seam between areas C&D
1#	>50.0	>50.0	>50.0	>50.0	>50.0
2#	>50.0	>50.0	>50.0	>50.0	>50.0
3#	>50.0	>50.0	>50.0	>50.0	>50.0
4#	>50.0	>50.0	>50.0	>50.0	>50.0
5#	>50.0	>50.0	>50.0	28.0	>50.0
6#	>50.0	>50.0	>50.0	>50.0	>50.0
7#	>50.0	>50.0	>50.0	>50.0	>50.0
8#	>50.0	>50.0	>50.0	>50.0	>50.0
9#	>50.0	>50.0	>50.0	22.6	>50.0
10#	>50.0	>50.0	>50.0	>50.0	>50.0
11#	>50.0	>50.0	>50.0	24.7	>50.0
12#	>50.0	>50.0	>50.0	32.5	>50.0
13#	>50.0	>50.0	>50.0	38.6	>50.0
14#	>50.0	>50.0	>50.0	>50.0	>50.0
15#	>50.0	>50.0	>50.0	39.9	>50.0
16#	>50.0	>50.0	>50.0	>50.0	>50.0
17#	>50.0	>50.0	>50.0	>50.0	>50.0
18#	>50.0	>50.0	>50.0	>50.0	>50.0
19#	>50.0	>50.0	>50.0	35.8	>50.0
20#	>50.0	>50.0	>50.0	>50.0	>50.0
21#	>50.0	>50.0	>50.0	>50.0	>50.0
22#	>50.0	>50.0	>50.0	>50.0	>50.0
23#	>50.0	>50.0	>50.0	29.4	>50.0
24#	>50.0	>50.0	>50.0	>50.0	>50.0
25#	>50.0	>50.0	>50.0	>50.0	>50.0
26#	>50.0	>50.0	>50.0	>50.0	>50.0
27#	>50.0	>50.0	>50.0	>50.0	>50.0
28#	>50.0	>50.0	>50.0	>50.0	>50.0
29#	>50.0	>50.0	>50.0	>50.0	>50.0
30#	>50.0	>50.0	>50.0	>50.0	>50.0
31#	>50.0	>50.0	>50.0	29.5	>50.0
32#	>50.0	>50.0	>50.0	>50.0	>50.0
Level3	Pass (32/32)	Pass (32/32)	Pass (32/32)	Pass (23/32)	Pass (32/32)

Remark:

- Level 2: all critical zone components shall have a hydrostatic resistance of at least 20cmH₂O
- Level 3: all critical zone components shall have a hydrostatic resistance of at least 50cmH₂O
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)
- Relative expanded uncertainty of measurement is 4.6%

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Barrier performance of each component and final classification commended

	Impact Penetration Test AATCC 42(g)	Hydrostatic Pressure Test AATCC 127(cmH ₂ O)	Resistance to Bacteriophage Phi-X174 ASTM F 1671	Level	Final classification
Area A (Critical zone-front)	Level 3	Level 3	/	Level 3	Level 3
Area B (Critical zone-sleeve)	Level 3	Level 3	/	Level 3	
Area C(Front)	Level 3	Level 3	/	Level 3	
Area D(Back)	Level 3	Level 2	/	Level 2	
Seam between areas C&D	Level 3	Level 3	/	Level 3	

Remark:

- The barrier performance of all critical zone components, including seams and points of attachments, shall be determined;
- The critical zone comprises at least area A and B. The classification of the surgical gown is based on the lower-performing component of the two;
- The back of the surgical gown (area D) may be nonprotective;
- Seams between protective and nonprotective areas have no barrier requirements;
- Seams between two protective areas are required to have at least the barrier performance of the lower-performing area;
- Level 1: Impact Penetration Test-AATCC 42: ≤4.5g;
- Level 2: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥20cmH₂O;
- Level 3: Impact Penetration Test-AATCC 42: ≤1.0g; Hydrostatic Pressure Test-AATCC 127: ≥50cmH₂O;
- Level 4: Resistance to Bacteriophage Phi-X174-ASTM F 1671: Pass.
- Only test the barrier performance of the sample. Label request, construction and other classed in ANSI/AAMI PB70-2012 is not checked.
- Total sample size for sample plan is 32. The maximum AQL is set at 4.0% at a 95% acceptance level. (Accept: 29, Reject: 28)

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Sample Photo



Face

Back

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TESTING
CNAS L0599

Test Report

SL52105255378201TX

Date: May 18, 2021

Page 1 of 24

WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD
NO.1599,SOUTH 3RD RING ROAD,SHENGZE,WUJIANG,SUZHOU,JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A/B/C) Disposable Medical Protective Clothing (EO sterilization)

Sample Color : (A) white; (B) white; (C) white

Composition : (A) PP+PE; (B) PP+PE; (C) PP+PE

Style No. : TTK-A01

Model No. : M

Lot No. : (A): TTK-20200816 (B): TTK-20200818 (C): TTK-20200820

Manufacturer : WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD

Country of Origin : China

Other Info. : Lot Size: 3 Sample Dimension: 175

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 07, 2021

Testing Period : Apr 07, 2021 - May 18, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).



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Comment:

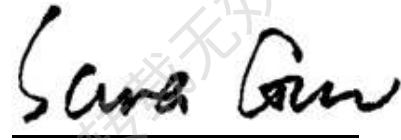
Standard Specification for Surgical Gowns Intended for Use in Healthcare Facilities (ASTM F2407-20)	(A)	(B)	(C)
Section 6.3 Flame Spread	M	M	M
Section 7.2 Seam Strength	M	M	M
Section 7.2 Tensile Strength	M	M	M
Section 7.2 Tearing Strength	M	M	M
Section 7.3 Evaporative Resistance	*	*	*
Section 7.3 Abrasion resistance	*	*	*

Remark: M=Meet ASTM F2407-20 requirement

*=No special requirement for ASTM F2407-20

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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Test Result

Personal Protective Equipment - Standard Specification for Surgical Gowns Intended for Use in Healthcare Facilities

ASTM F2407-20

Section 6.3 Flame Spread

(16 CFR Part 1610 - 2008)

Acceptance criteria : 29 or more of the 32 tested specimens with burn time 3.5 seconds or more and pass Class 1 for plain surface
Fabric Surface : Smooth
Test Specimen Direction : Length

Sample (A)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:

Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

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Sample (B)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:		
Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

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Sample (C)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:		
Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

Remarks

Class 1

Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Test Criteria for plain surface textile fabric (per 5 specimens):

(A) There are no burn times; or

(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or

(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.

Test five additional specimens when there is only one burn time, and it is less than 3.5 seconds; or there is an average burn time less than 3.5 seconds.

The burn times for the 10 specimens determine the preliminary classification when:

(A) There are two or more burn times with an average burn time of 3.5 seconds or greater and classification is Class 1 (Pass); or

(B) There are two or more burn times with an average burn time of less than 3.5 seconds and classification is Class 3 (Fail); or

(C) If there is only one burn time out of the 10 specimens, the test results are inconclusive. The fabric cannot be classified.

Burn Code Description:

IBE = Ignited, but extinguished

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Section 7.2 Seam Strength

(ASTM D 1683/D1683M-17(2018), Procedure A)

Acceptance Criteria : Per Lot, an acceptable quality limit of 4.0 % is met for a single sampling plan when 29 or more of the 32 tested specimens show "pass" results.

Sample (A)

Specimen No.	Sleeve seam(N)	Inside seam(N)	Back rise seam(N)	Crotch seam(N)	Conclusion
1	130.5(F.R.)	140.0(F.R.)	130.0(F.R.)	235.5(F.R.)	Pass
2	128.0(F.R.)	128.5(F.R.)	135.5(F.R.)	223.0(F.R.)	Pass
3	132.0(F.R.)	134.5(F.R.)	133.5(F.R.)	221.0(F.R.)	Pass
4	136.0(F.R.)	139.0(F.R.)	141.0(F.R.)	230.5(F.R.)	Pass
5	126.0(F.R.)	148.0(F.R.)	141.0(F.R.)	230.5(F.R.)	Pass
6	136.0(F.R.)	131.0(F.R.)	130.5(F.R.)	215.0(F.R.)	Pass
7	137.0(F.R.)	140.5(F.R.)	130.5(F.R.)	236.0(F.R.)	Pass
8	122.0(F.R.)	149.0(F.R.)	141.5(F.R.)	224.0(F.R.)	Pass
9	124.5(F.R.)	133.5(F.R.)	144.0(F.R.)	228.0(F.R.)	Pass
10	131.0(F.R.)	151.0(F.R.)	143.0(F.R.)	220.5(F.R.)	Pass
11	124.5(F.R.)	131.5(F.R.)	129.5(F.R.)	231.5(F.R.)	Pass
12	145.0(F.R.)	138.5(F.R.)	125.5(F.R.)	229.0(F.R.)	Pass
13	138.0(F.R.)	147.0(F.R.)	124.0(F.R.)	214.5(F.R.)	Pass
14	117.5(F.R.)	138.5(F.R.)	131.5(F.R.)	227.0(F.R.)	Pass
15	134.5(F.R.)	149.5(F.R.)	140.0(F.R.)	214.5(F.R.)	Pass
16	149.0(F.R.)	140.0(F.R.)	139.5(F.R.)	222.0(F.R.)	Pass
17	145.0(F.R.)	136.5(F.R.)	127.0(F.R.)	227.0(F.R.)	Pass
18	135.0(F.R.)	134.5(F.R.)	126.0(F.R.)	236.0(F.R.)	Pass
19	123.0(F.R.)	125.0(F.R.)	144.0(F.R.)	217.5(F.R.)	Pass
20	136.5(F.R.)	114.5(F.R.)	140.0(F.R.)	183.5(F.R.)	Pass
21	138.5(F.R.)	134.5(F.R.)	137.5(F.R.)	217.0(F.R.)	Pass
22	141.5(F.R.)	143.5(F.R.)	136.0(F.R.)	234.5(F.R.)	Pass
23	119.5(F.R.)	145.5(F.R.)	135.5(F.R.)	233.0(F.R.)	Pass
24	135.0(F.R.)	141.0(F.R.)	137.5(F.R.)	215.5(F.R.)	Pass
25	128.5(F.R.)	137.5(F.R.)	144.0(F.R.)	221.0(F.R.)	Pass
26	143.5(F.R.)	135.5(F.R.)	130.5(F.R.)	225.0(F.R.)	Pass

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27	144.0(F.R.)	137.5(F.R.)	136.0(F.R.)	226.0(F.R.)	Pass
28	144.0(F.R.)	142.5(F.R.)	138.0(F.R.)	229.0(F.R.)	Pass
29	134.0(F.R.)	126.5(F.R.)	141.5(F.R.)	188.5(F.R.)	Pass
30	150.0(F.R.)	138.0(F.R.)	136.0(F.R.)	222.5(F.R.)	Pass
31	157.0(F.R.)	140.5(F.R.)	138.0(F.R.)	202.5(F.R.)	Pass
32	130.5(F.R.)	144.5(F.R.)	138.0(F.R.)	219.0(F.R.)	Pass
No of pass specimens		32/32			
Overall result:		Acceptable			

Requirement: ≥30N

Remarks: F.R. = Fabric Rupture;

Sample (B)

Specimen No.	Sleeve seam(N)	Inside seam(N)	Back rise seam(N)	Crotch seam(N)	Conclusion
1	147.5(F.R.)	138.0(F.R.)	139.0(F.R.)	218.0(F.R.)	Pass
2	153.0(F.R.)	143.0(F.R.)	140.5(F.R.)	208.5(F.R.)	Pass
3	143.5(F.R.)	135.5(F.R.)	149.5(F.R.)	212.5(F.R.)	Pass
4	142.0(F.R.)	148.5(F.R.)	128.0(F.R.)	209.5(F.R.)	Pass
5	145.5(F.R.)	128.5(F.R.)	128.0(F.R.)	166.5(F.R.)	Pass
6	148.0(F.R.)	144.0(F.R.)	128.5(F.R.)	203.5(F.R.)	Pass
7	142.0(F.R.)	139.0(F.R.)	119.0(F.R.)	177.0(F.R.)	Pass
8	140.5(F.R.)	149.0(F.R.)	124.0(F.R.)	222.5(F.R.)	Pass
9	145.0(F.R.)	140.0(F.R.)	133.0(F.R.)	210.0(F.R.)	Pass
10	140.0(F.R.)	152.5(F.R.)	138.5(F.R.)	214.0(F.R.)	Pass
11	137.0(F.R.)	142.5(F.R.)	137.5(F.R.)	197.0(F.R.)	Pass
12	129.0(F.R.)	145.0(F.R.)	130.0(F.R.)	215.5(F.R.)	Pass
13	140.5(F.R.)	135.0(F.R.)	132.5(F.R.)	221.5(F.R.)	Pass
14	130.0(F.R.)	141.5(F.R.)	138.0(F.R.)	216.5(F.R.)	Pass
15	142.5(F.R.)	131.5(F.R.)	135.0(F.R.)	209.0(F.R.)	Pass
16	140.0(F.R.)	130.5(F.R.)	125.0(F.R.)	224.5(F.R.)	Pass
17	149.0(F.R.)	148.0(F.R.)	131.5(F.R.)	200.0(F.R.)	Pass
18	152.0(F.R.)	136.0(F.R.)	131.5(F.R.)	218.0(F.R.)	Pass
19	123.5(F.R.)	132.5(F.R.)	130.5(F.R.)	212.5(F.R.)	Pass
20	142.5(F.R.)	139.0(F.R.)	133.5(F.R.)	218.5(F.R.)	Pass
21	146.5(F.R.)	126.5(F.R.)	143.5(F.R.)	217.0(F.R.)	Pass



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17	131.0(F.R.)	132.5(F.R.)	134.5(F.R.)	213.5(F.R.)	Pass
18	135.0(F.R.)	141.0(F.R.)	144.5(F.R.)	210.5(F.R.)	Pass
19	139.5(F.R.)	119.5(F.R.)	128.5(F.R.)	217.5(F.R.)	Pass
20	141.5(F.R.)	141.0(F.R.)	138.0(F.R.)	194.5(F.R.)	Pass
21	142.5(F.R.)	138.0(F.R.)	128.5(F.R.)	218.0(F.R.)	Pass
22	142.5(F.R.)	128.0(F.R.)	137.0(F.R.)	210.0(F.R.)	Pass
23	144.0(F.R.)	138.0(F.R.)	140.5(F.R.)	212.5(F.R.)	Pass
24	142.0(F.R.)	125.0(F.R.)	137.5(F.R.)	198.5(F.R.)	Pass
25	147.5(F.R.)	131.0(F.R.)	129.0(F.R.)	183.0(F.R.)	Pass
26	145.5(F.R.)	136.5(F.R.)	142.0(F.R.)	210.0(F.R.)	Pass
27	136.0(F.R.)	128.5(F.R.)	139.0(F.R.)	205.0(F.R.)	Pass
28	145.0(F.R.)	129.0(F.R.)	136.0(F.R.)	234.5(F.R.)	Pass
29	143.0(F.R.)	134.0(F.R.)	134.0(F.R.)	180.0(F.R.)	Pass
30	145.5(F.R.)	137.0(F.R.)	142.0(F.R.)	214.5(F.R.)	Pass
31	135.0(F.R.)	141.0(F.R.)	143.5(F.R.)	216.5(F.R.)	Pass
32	143.0(F.R.)	136.5(F.R.)	145.5(F.R.)	173.5(F.R.)	Pass
No of pass specimens		32/32			
Overall result:		Acceptable			

Requirement: ≥30N

Remarks: F.R. = Fabric Rupture;

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Section 7.2 Tensile Strength

(ASTM D5034-09(Reapproved 2017); Grab method)

Acceptance Criteria : Per Lot, an acceptable quality limit of 4.0 % is met for a single sampling plan when 29 or more of the 32 tested specimens show "pass" results.

Sample (A)

Specimen No.	Warp/Length (N)	Weft/Width (N)	Conclusion
1	191.0	161.5	Pass
2	185.5	162.0	Pass
3	196.5	158.5	Pass
4	201.0	172.0	Pass
5	197.5	161.5	Pass
6	202.0	161.0	Pass
7	197.5	167.5	Pass
8	193.0	147.0	Pass
9	181.5	159.5	Pass
10	173.0	159.0	Pass
11	178.0	158.0	Pass
12	199.5	158.5	Pass
13	195.5	162.0	Pass
14	201.0	168.0	Pass
15	185.0	166.5	Pass
16	180.5	158.0	Pass
17	193.0	157.5	Pass
18	179.5	169.5	Pass
19	186.0	160.0	Pass
20	199.5	158.5	Pass
21	191.5	160.0	Pass
22	182.0	152.0	Pass
23	193.5	164.5	Pass
24	194.0	163.5	Pass
25	190.0	155.5	Pass

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26	207.5	163.5	Pass
27	182.5	153.0	Pass
28	183.0	158.0	Pass
29	193.5	151.0	Pass
30	183.5	168.0	Pass
31	186.0	160.0	Pass
32	188.0	164.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥30N

Sample (B)

Specimen No.	Warp/Length (N)	Weft/Width (N)	Conclusion
1	188.5	169.0	Pass
2	186.5	161.5	Pass
3	202.5	167.5	Pass
4	197.0	160.0	Pass
5	191.5	157.5	Pass
6	187.5	161.0	Pass
7	187.5	165.5	Pass
8	193.5	170.5	Pass
9	192.0	162.5	Pass
10	192.5	167.0	Pass
11	179.0	159.5	Pass
12	182.5	170.5	Pass
13	198.0	159.5	Pass
14	192.0	154.0	Pass
15	192.5	165.5	Pass
16	188.5	156.0	Pass
17	186.0	164.5	Pass
18	185.0	146.5	Pass
19	190.5	156.5	Pass
20	187.0	173.5	Pass
21	194.0	166.0	Pass

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22	187.0	161.0	Pass
23	192.0	163.5	Pass
24	190.5	159.5	Pass
25	189.5	164.0	Pass
26	194.0	168.0	Pass
27	197.0	168.0	Pass
28	197.0	171.0	Pass
29	197.0	165.5	Pass
30	194.0	164.0	Pass
31	190.5	157.0	Pass
32	190.5	154.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥30N

Sample (C)

Specimen No.	Warp/Length (N)	Weft/Width (N)	Conclusion
1	199.5	162.0	Pass
2	187.0	157.5	Pass
3	190.5	166.0	Pass
4	196.0	159.5	Pass
5	183.5	153.0	Pass
6	186.0	156.0	Pass
7	183.5	164.0	Pass
8	183.0	152.5	Pass
9	176.5	157.0	Pass
10	182.5	159.5	Pass
11	185.5	156.0	Pass
12	183.0	161.0	Pass
13	203.0	152.0	Pass
14	187.0	158.0	Pass
15	180.5	155.0	Pass
16	198.5	157.0	Pass
17	191.0	166.0	Pass

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18	190.0	162.0	Pass
19	191.0	161.0	Pass
20	191.5	168.0	Pass
21	190.0	165.0	Pass
22	184.0	152.0	Pass
23	190.0	154.5	Pass
24	195.5	170.0	Pass
25	191.0	169.0	Pass
26	195.0	165.0	Pass
27	187.5	162.5	Pass
28	191.0	162.0	Pass
29	193.0	160.0	Pass
30	197.0	165.5	Pass
31	187.5	164.5	Pass
32	183.0	162.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥30N

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26	65.5	48.5	Pass
27	62.0	51.0	Pass
28	62.5	45.0	Pass
29	63.0	48.0	Pass
30	61.5	49.0	Pass
31	59.0	50.0	Pass
32	62.0	48.5	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: $\geq 10N$

Sample (B)

Specimen No.	Warp/Length Yarns Torn (N)	Weft/Width Yarns Torn (N)	Conclusion
1	52.5	46.5	Pass
2	68.5	51.0	Pass
3	57.0	43.0	Pass
4	60.5	47.0	Pass
5	71.0	53.5	Pass
6	66.5	48.0	Pass
7	64.5	49.5	Pass
8	58.5	41.5	Pass
9	61.5	53.0	Pass
10	68.0	49.0	Pass
11	67.0	47.0	Pass
12	67.0	54.0	Pass
13	65.0	52.5	Pass
14	60.0	45.0	Pass
15	57.5	44.5	Pass
16	63.5	45.0	Pass
17	56.5	51.0	Pass
18	67.5	53.5	Pass
19	63.5	45.0	Pass
20	61.0	56.0	Pass
21	72.5	51.0	Pass

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22	66.5	49.0	Pass
23	64.0	49.0	Pass
24	60.5	46.0	Pass
25	61.5	53.0	Pass
26	62.5	52.0	Pass
27	66.5	46.5	Pass
28	63.5	43.5	Pass
29	61.0	43.5	Pass
30	58.5	50.0	Pass
31	62.5	38.5	Pass
32	57.5	47.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥10N

Sample (C)

Specimen No.	Warp/Length Yarns Torn (N)	Weft/Width Yarns Torn (N)	Conclusion
1	57.5	41.0	Pass
2	61.0	48.5	Pass
3	60.0	46.5	Pass
4	57.0	47.0	Pass
5	58.5	52.0	Pass
6	61.0	50.5	Pass
7	64.5	45.5	Pass
8	60.0	50.0	Pass
9	61.5	48.0	Pass
10	58.0	42.5	Pass
11	57.0	44.5	Pass
12	59.5	49.0	Pass
13	55.5	40.0	Pass
14	54.5	49.0	Pass
15	48.5	52.5	Pass
16	66.5	47.0	Pass
17	70.0	43.5	Pass

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18	69.5	46.5	Pass
19	59.0	48.0	Pass
20	65.5	48.5	Pass
21	60.5	46.5	Pass
22	66.0	51.0	Pass
23	66.5	50.5	Pass
24	61.5	48.5	Pass
25	57.0	46.5	Pass
26	62.0	45.5	Pass
27	69.0	49.5	Pass
28	68.0	51.0	Pass
29	60.0	55.0	Pass
30	71.5	48.5	Pass
31	66.5	54.0	Pass
32	69.0	49.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥10N

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Section 7.3 Evaporative Resistance

(ASTM F1868-17, Procedure Part B)

Test conditions

1. Air temperature: $35.0 \pm 0.5^\circ\text{C}$
2. Relative humidity: $40 \pm 4\%$ R.H.
3. Air speed: 1.0 m/s
4. Temperature of hotplate: $35.0 \pm 0.5^\circ\text{C}$
5. Orientation of test specimen: Specimens lied flat across the measurement unit with the side normally facing the human body towards the measuring unit. Fabric back side (skin contact side) is in contact with hotplate

Sample (A)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), $\text{kPa} \cdot \text{m}^2/\text{W}$ -Critical zone	Evaporative resistance of sample alone (R_{ef}), $\text{kPa} \cdot \text{m}^2/\text{W}$ -Noncritical zone
1	0.330	0.154
2	0.406	0.135
3	0.406	0.141
4	0.656	0.123
5	0.513	0.197
6	0.407	0.202
7	0.630	0.175
8	0.506	0.157
9	0.371	0.130
10	0.370	0.146
11	0.296	0.140
12	0.326	0.156
13	0.298	0.130
14	0.336	0.226
15	0.517	0.161
16	0.374	0.155
17	0.396	0.247
18	0.299	0.238
19	0.227	0.218
20	0.238	0.260
21	0.270	0.242
22	0.280	0.168
23	0.238	0.255
24	0.268	0.229
25	0.375	0.205
26	0.340	0.176
27	0.295	0.194
28	0.278	0.151
29	0.375	0.146
30	0.358	0.301
31	0.278	0.175
32	0.317	0.261

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Sample (B)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Critical zone	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Noncritical zone
1	0.290	0.238
2	0.290	0.168
3	0.523	0.408
4	0.312	0.201
5	0.419	0.178
6	0.508	0.165
7	0.320	0.195
8	0.328	0.206
9	0.356	0.216
10	0.516	0.175
11	0.402	0.207
12	0.265	0.226
13	0.278	0.171
14	0.295	0.145
15	0.279	0.142
16	0.301	0.161
17	0.336	0.220
18	0.406	0.227
19	0.368	0.218
20	0.393	0.170
21	0.386	0.178
22	0.426	0.238
23	0.298	0.275
24	0.265	0.188
25	0.295	0.197
26	0.227	0.219
27	0.352	0.151
28	0.376	0.140
29	0.317	0.167
30	0.358	0.228
31	0.279	0.196
32	0.376	0.278

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Sample (C)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Critical zone	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Noncritical zone
1	0.244	0.335
2	0.373	0.339
3	0.318	0.172
4	0.378	0.209
5	0.464	0.195
6	0.379	0.237
7	0.465	0.293
8	0.385	0.209
9	0.420	0.127
10	0.333	0.158
11	0.296	0.178
12	0.352	0.301
13	0.401	0.276
14	0.260	0.217
15	0.273	0.175
16	0.368	0.140
17	0.425	0.258
18	0.501	0.230
19	0.252	0.153
20	0.230	0.148
21	0.318	0.140
22	0.358	0.169
23	0.347	0.216
24	0.353	0.168
25	0.403	0.174
26	0.275	0.158
27	0.299	0.218
28	0.335	0.269
29	0.417	0.164
30	0.516	0.189
31	0.436	0.178
32	0.358	0.150

Remarks:

1. Evaporative resistance R_{ef} , a quantity specific to textile materials or composites, determines the latent evaporative heat flux across a given area in response to a steady applied water-vapour pressure gradient.
2. The evaporative heat flux may consist of both diffusive and conductive components.
3. The lower the evaporative resistance, the easier the water vapour transmission and more comfortable the clothing should be to wear.

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Section 7.3 Abrasion resistance

(ASTM D4966-12(Reapproved 2016); Option 1, Martindale wear & Abrasion tester; Pressure: 9kPa)

Sample (A)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000

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Sample (B)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000

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Sample (C)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000

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Sample Photo



Face

Back

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

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TESTING
CNAS L0599

Test Report

SL52105255378201TX

Date: May 18, 2021

Page 1 of 24

WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD
NO.1599,SOUTH 3RD RING ROAD,SHENGZE,WUJIANG,SUZHOU,JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A/B/C) Disposable Medical Protective Clothing (EO sterilization)

Sample Color : (A) white; (B) white; (C) white

Composition : (A) PP+PE; (B) PP+PE; (C) PP+PE

Style No. : TTK-A01

Model No. : M

Lot No. : (A): TTK-20200816 (B): TTK-20200818 (C): TTK-20200820

Manufacturer : WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD

Country of Origin : China

Other Info. : Lot Size: 3 Sample Dimension: 175

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 07, 2021

Testing Period : Apr 07, 2021 - May 18, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).



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Comment:

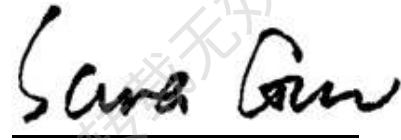
Standard Specification for Surgical Gowns Intended for Use in Healthcare Facilities (ASTM F2407-20)	(A)	(B)	(C)
Section 6.3 Flame Spread	M	M	M
Section 7.2 Seam Strength	M	M	M
Section 7.2 Tensile Strength	M	M	M
Section 7.2 Tearing Strength	M	M	M
Section 7.3 Evaporative Resistance	*	*	*
Section 7.3 Abrasion resistance	*	*	*

Remark: M=Meet ASTM F2407-20 requirement

*=No special requirement for ASTM F2407-20

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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Test Result

Personal Protective Equipment - Standard Specification for Surgical Gowns Intended for Use in Healthcare Facilities

ASTM F2407-20

Section 6.3 Flame Spread

(16 CFR Part 1610 - 2008)

Acceptance criteria : 29 or more of the 32 tested specimens with burn time 3.5 seconds or more and pass Class 1 for plain surface
Fabric Surface : Smooth
Test Specimen Direction : Length

Sample (A)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:

Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

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Sample (B)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:		
Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

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Sample (C)

Specimen No.	Flame Spread (sec.)	Burn Code	Specimen No.	Flame Spread (sec.)	Burn Code
1	--	IBE	17	--	IBE
2	--	IBE	18	--	IBE
3	--	IBE	19	--	IBE
4	--	IBE	20	--	IBE
5	--	IBE	21	--	IBE
6	--	IBE	22	--	IBE
7	--	IBE	23	--	IBE
8	--	IBE	24	--	IBE
9	--	IBE	25	--	IBE
10	--	IBE	26	--	IBE
11	--	IBE	27	--	IBE
12	--	IBE	28	--	IBE
13	--	IBE	29	--	IBE
14	--	IBE	30	--	IBE
15	--	IBE	31	--	IBE
16	--	IBE	32	--	IBE

Flammability Classification:		
Specimen	1-5	Class 1
	6-10	Class 1
	11-15	Class 1
	16-20	Class 1
	21-25	Class 1
	26-30	Class 1
	31-32	Class 1
No of Test Specimen	32	
Conclusion	Pass	

Remarks

Class 1

Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

Test Criteria for plain surface textile fabric (per 5 specimens):

(A) There are no burn times; or

(B) There is only one burn time and it is equal to or greater than 3.5 seconds; or

(C) The average burn time of two or more specimens is equal to or greater than 3.5 seconds.

Test five additional specimens when there is only one burn time, and it is less than 3.5 seconds; or there is an average burn time less than 3.5 seconds.

The burn times for the 10 specimens determine the preliminary classification when:

(A) There are two or more burn times with an average burn time of 3.5 seconds or greater and classification is Class 1 (Pass); or

(B) There are two or more burn times with an average burn time of less than 3.5 seconds and classification is Class 3 (Fail); or

(C) If there is only one burn time out of the 10 specimens, the test results are inconclusive. The fabric cannot be classified.

Burn Code Description:

IBE = Ignited, but extinguished

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Section 7.2 Seam Strength

(ASTM D 1683/D1683M-17(2018), Procedure A)

Acceptance Criteria : Per Lot, an acceptable quality limit of 4.0 % is met for a single sampling plan when 29 or more of the 32 tested specimens show "pass" results.

Sample (A)

Specimen No.	Sleeve seam(N)	Inside seam(N)	Back rise seam(N)	Crotch seam(N)	Conclusion
1	130.5(F.R.)	140.0(F.R.)	130.0(F.R.)	235.5(F.R.)	Pass
2	128.0(F.R.)	128.5(F.R.)	135.5(F.R.)	223.0(F.R.)	Pass
3	132.0(F.R.)	134.5(F.R.)	133.5(F.R.)	221.0(F.R.)	Pass
4	136.0(F.R.)	139.0(F.R.)	141.0(F.R.)	230.5(F.R.)	Pass
5	126.0(F.R.)	148.0(F.R.)	141.0(F.R.)	230.5(F.R.)	Pass
6	136.0(F.R.)	131.0(F.R.)	130.5(F.R.)	215.0(F.R.)	Pass
7	137.0(F.R.)	140.5(F.R.)	130.5(F.R.)	236.0(F.R.)	Pass
8	122.0(F.R.)	149.0(F.R.)	141.5(F.R.)	224.0(F.R.)	Pass
9	124.5(F.R.)	133.5(F.R.)	144.0(F.R.)	228.0(F.R.)	Pass
10	131.0(F.R.)	151.0(F.R.)	143.0(F.R.)	220.5(F.R.)	Pass
11	124.5(F.R.)	131.5(F.R.)	129.5(F.R.)	231.5(F.R.)	Pass
12	145.0(F.R.)	138.5(F.R.)	125.5(F.R.)	229.0(F.R.)	Pass
13	138.0(F.R.)	147.0(F.R.)	124.0(F.R.)	214.5(F.R.)	Pass
14	117.5(F.R.)	138.5(F.R.)	131.5(F.R.)	227.0(F.R.)	Pass
15	134.5(F.R.)	149.5(F.R.)	140.0(F.R.)	214.5(F.R.)	Pass
16	149.0(F.R.)	140.0(F.R.)	139.5(F.R.)	222.0(F.R.)	Pass
17	145.0(F.R.)	136.5(F.R.)	127.0(F.R.)	227.0(F.R.)	Pass
18	135.0(F.R.)	134.5(F.R.)	126.0(F.R.)	236.0(F.R.)	Pass
19	123.0(F.R.)	125.0(F.R.)	144.0(F.R.)	217.5(F.R.)	Pass
20	136.5(F.R.)	114.5(F.R.)	140.0(F.R.)	183.5(F.R.)	Pass
21	138.5(F.R.)	134.5(F.R.)	137.5(F.R.)	217.0(F.R.)	Pass
22	141.5(F.R.)	143.5(F.R.)	136.0(F.R.)	234.5(F.R.)	Pass
23	119.5(F.R.)	145.5(F.R.)	135.5(F.R.)	233.0(F.R.)	Pass
24	135.0(F.R.)	141.0(F.R.)	137.5(F.R.)	215.5(F.R.)	Pass
25	128.5(F.R.)	137.5(F.R.)	144.0(F.R.)	221.0(F.R.)	Pass
26	143.5(F.R.)	135.5(F.R.)	130.5(F.R.)	225.0(F.R.)	Pass

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SL52105255378201TX

Date: May 18, 2021

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27	144.0(F.R.)	137.5(F.R.)	136.0(F.R.)	226.0(F.R.)	Pass
28	144.0(F.R.)	142.5(F.R.)	138.0(F.R.)	229.0(F.R.)	Pass
29	134.0(F.R.)	126.5(F.R.)	141.5(F.R.)	188.5(F.R.)	Pass
30	150.0(F.R.)	138.0(F.R.)	136.0(F.R.)	222.5(F.R.)	Pass
31	157.0(F.R.)	140.5(F.R.)	138.0(F.R.)	202.5(F.R.)	Pass
32	130.5(F.R.)	144.5(F.R.)	138.0(F.R.)	219.0(F.R.)	Pass
No of pass specimens		32/32			
Overall result:		Acceptable			

Requirement: ≥30N

Remarks: F.R. = Fabric Rupture;

Sample (B)

Specimen No.	Sleeve seam(N)	Inside seam(N)	Back rise seam(N)	Crotch seam(N)	Conclusion
1	147.5(F.R.)	138.0(F.R.)	139.0(F.R.)	218.0(F.R.)	Pass
2	153.0(F.R.)	143.0(F.R.)	140.5(F.R.)	208.5(F.R.)	Pass
3	143.5(F.R.)	135.5(F.R.)	149.5(F.R.)	212.5(F.R.)	Pass
4	142.0(F.R.)	148.5(F.R.)	128.0(F.R.)	209.5(F.R.)	Pass
5	145.5(F.R.)	128.5(F.R.)	128.0(F.R.)	166.5(F.R.)	Pass
6	148.0(F.R.)	144.0(F.R.)	128.5(F.R.)	203.5(F.R.)	Pass
7	142.0(F.R.)	139.0(F.R.)	119.0(F.R.)	177.0(F.R.)	Pass
8	140.5(F.R.)	149.0(F.R.)	124.0(F.R.)	222.5(F.R.)	Pass
9	145.0(F.R.)	140.0(F.R.)	133.0(F.R.)	210.0(F.R.)	Pass
10	140.0(F.R.)	152.5(F.R.)	138.5(F.R.)	214.0(F.R.)	Pass
11	137.0(F.R.)	142.5(F.R.)	137.5(F.R.)	197.0(F.R.)	Pass
12	129.0(F.R.)	145.0(F.R.)	130.0(F.R.)	215.5(F.R.)	Pass
13	140.5(F.R.)	135.0(F.R.)	132.5(F.R.)	221.5(F.R.)	Pass
14	130.0(F.R.)	141.5(F.R.)	138.0(F.R.)	216.5(F.R.)	Pass
15	142.5(F.R.)	131.5(F.R.)	135.0(F.R.)	209.0(F.R.)	Pass
16	140.0(F.R.)	130.5(F.R.)	125.0(F.R.)	224.5(F.R.)	Pass
17	149.0(F.R.)	148.0(F.R.)	131.5(F.R.)	200.0(F.R.)	Pass
18	152.0(F.R.)	136.0(F.R.)	131.5(F.R.)	218.0(F.R.)	Pass
19	123.5(F.R.)	132.5(F.R.)	130.5(F.R.)	212.5(F.R.)	Pass
20	142.5(F.R.)	139.0(F.R.)	133.5(F.R.)	218.5(F.R.)	Pass
21	146.5(F.R.)	126.5(F.R.)	143.5(F.R.)	217.0(F.R.)	Pass

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22	133.5(F.R.)	142.5(F.R.)	144.5(F.R.)	216.5(F.R.)	Pass
23	130.5(F.R.)	133.0(F.R.)	135.5(F.R.)	209.0(F.R.)	Pass
24	154.5(F.R.)	130.0(F.R.)	138.0(F.R.)	232.0(F.R.)	Pass
25	137.0(F.R.)	144.0(F.R.)	146.5(F.R.)	203.0(F.R.)	Pass
26	142.5(F.R.)	138.0(F.R.)	142.5(F.R.)	214.5(F.R.)	Pass
27	135.5(F.R.)	127.5(F.R.)	127.5(F.R.)	214.5(F.R.)	Pass
28	142.0(F.R.)	133.0(F.R.)	148.5(F.R.)	216.5(F.R.)	Pass
29	142.0(F.R.)	130.0(F.R.)	133.5(F.R.)	231.0(F.R.)	Pass
30	148.0(F.R.)	143.5(F.R.)	143.5(F.R.)	202.5(F.R.)	Pass
31	157.5(F.R.)	142.0(F.R.)	147.5(F.R.)	189.5(F.R.)	Pass
32	134.0(F.R.)	130.5(F.R.)	140.0(F.R.)	215.5(F.R.)	Pass

No of pass specimens

32/32

Overall result:

Acceptable

Requirement: ≥30N

Remarks: F.R. = Fabric Rupture;

Sample (C)

Specimen No.	Sleeve seam(N)	Inside seam(N)	Back rise seam(N)	Crotch seam(N)	Conclusion
1	143.5(F.R.)	136.0(F.R.)	147.5(F.R.)	195.5(F.R.)	Pass
2	139.0(F.R.)	142.5(F.R.)	122.5(F.R.)	208.0(F.R.)	Pass
3	134.0(F.R.)	145.5(F.R.)	126.5(F.R.)	207.5(F.R.)	Pass
4	131.5(F.R.)	132.0(F.R.)	125.5(F.R.)	222.5(F.R.)	Pass
5	135.5(F.R.)	122.5(F.R.)	136.0(F.R.)	223.5(F.R.)	Pass
6	146.0(F.R.)	136.5(F.R.)	131.0(F.R.)	202.5(F.R.)	Pass
7	144.5(F.R.)	147.0(F.R.)	127.0(F.R.)	197.5(F.R.)	Pass
8	135.0(F.R.)	135.0(F.R.)	131.0(F.R.)	207.5(F.R.)	Pass
9	142.5(F.R.)	137.0(F.R.)	137.5(F.R.)	229.5(F.R.)	Pass
10	136.5(F.R.)	150.5(F.R.)	137.0(F.R.)	228.0(F.R.)	Pass
11	142.0(F.R.)	145.0(F.R.)	141.5(F.R.)	210.0(F.R.)	Pass
12	146.5(F.R.)	149.5(F.R.)	131.0(F.R.)	201.0(F.R.)	Pass
13	140.0(F.R.)	138.5(F.R.)	128.5(F.R.)	181.5(F.R.)	Pass
14	144.0(F.R.)	140.5(F.R.)	134.5(F.R.)	195.5(F.R.)	Pass
15	129.5(F.R.)	139.5(F.R.)	147.0(F.R.)	202.5(F.R.)	Pass
16	150.0(F.R.)	145.5(F.R.)	131.5(F.R.)	183.0(F.R.)	Pass

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17	131.0(F.R.)	132.5(F.R.)	134.5(F.R.)	213.5(F.R.)	Pass
18	135.0(F.R.)	141.0(F.R.)	144.5(F.R.)	210.5(F.R.)	Pass
19	139.5(F.R.)	119.5(F.R.)	128.5(F.R.)	217.5(F.R.)	Pass
20	141.5(F.R.)	141.0(F.R.)	138.0(F.R.)	194.5(F.R.)	Pass
21	142.5(F.R.)	138.0(F.R.)	128.5(F.R.)	218.0(F.R.)	Pass
22	142.5(F.R.)	128.0(F.R.)	137.0(F.R.)	210.0(F.R.)	Pass
23	144.0(F.R.)	138.0(F.R.)	140.5(F.R.)	212.5(F.R.)	Pass
24	142.0(F.R.)	125.0(F.R.)	137.5(F.R.)	198.5(F.R.)	Pass
25	147.5(F.R.)	131.0(F.R.)	129.0(F.R.)	183.0(F.R.)	Pass
26	145.5(F.R.)	136.5(F.R.)	142.0(F.R.)	210.0(F.R.)	Pass
27	136.0(F.R.)	128.5(F.R.)	139.0(F.R.)	205.0(F.R.)	Pass
28	145.0(F.R.)	129.0(F.R.)	136.0(F.R.)	234.5(F.R.)	Pass
29	143.0(F.R.)	134.0(F.R.)	134.0(F.R.)	180.0(F.R.)	Pass
30	145.5(F.R.)	137.0(F.R.)	142.0(F.R.)	214.5(F.R.)	Pass
31	135.0(F.R.)	141.0(F.R.)	143.5(F.R.)	216.5(F.R.)	Pass
32	143.0(F.R.)	136.5(F.R.)	145.5(F.R.)	173.5(F.R.)	Pass
No of pass specimens		32/32			
Overall result:		Acceptable			

Requirement: ≥30N

Remarks: F.R. = Fabric Rupture;

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26	207.5	163.5	Pass
27	182.5	153.0	Pass
28	183.0	158.0	Pass
29	193.5	151.0	Pass
30	183.5	168.0	Pass
31	186.0	160.0	Pass
32	188.0	164.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥30N

Sample (B)

Specimen No.	Warp/Length (N)	Weft/Width (N)	Conclusion
1	188.5	169.0	Pass
2	186.5	161.5	Pass
3	202.5	167.5	Pass
4	197.0	160.0	Pass
5	191.5	157.5	Pass
6	187.5	161.0	Pass
7	187.5	165.5	Pass
8	193.5	170.5	Pass
9	192.0	162.5	Pass
10	192.5	167.0	Pass
11	179.0	159.5	Pass
12	182.5	170.5	Pass
13	198.0	159.5	Pass
14	192.0	154.0	Pass
15	192.5	165.5	Pass
16	188.5	156.0	Pass
17	186.0	164.5	Pass
18	185.0	146.5	Pass
19	190.5	156.5	Pass
20	187.0	173.5	Pass
21	194.0	166.0	Pass

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22	187.0	161.0	Pass
23	192.0	163.5	Pass
24	190.5	159.5	Pass
25	189.5	164.0	Pass
26	194.0	168.0	Pass
27	197.0	168.0	Pass
28	197.0	171.0	Pass
29	197.0	165.5	Pass
30	194.0	164.0	Pass
31	190.5	157.0	Pass
32	190.5	154.0	Pass

No of pass specimens

32/32

Overall result:

Acceptable

Requirement: ≥30N

Sample (C)

Specimen No.	Warp/Length (N)	Weft/Width (N)	Conclusion
1	199.5	162.0	Pass
2	187.0	157.5	Pass
3	190.5	166.0	Pass
4	196.0	159.5	Pass
5	183.5	153.0	Pass
6	186.0	156.0	Pass
7	183.5	164.0	Pass
8	183.0	152.5	Pass
9	176.5	157.0	Pass
10	182.5	159.5	Pass
11	185.5	156.0	Pass
12	183.0	161.0	Pass
13	203.0	152.0	Pass
14	187.0	158.0	Pass
15	180.5	155.0	Pass
16	198.5	157.0	Pass
17	191.0	166.0	Pass

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18	190.0	162.0	Pass
19	191.0	161.0	Pass
20	191.5	168.0	Pass
21	190.0	165.0	Pass
22	184.0	152.0	Pass
23	190.0	154.5	Pass
24	195.5	170.0	Pass
25	191.0	169.0	Pass
26	195.0	165.0	Pass
27	187.5	162.5	Pass
28	191.0	162.0	Pass
29	193.0	160.0	Pass
30	197.0	165.5	Pass
31	187.5	164.5	Pass
32	183.0	162.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥30N

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26	65.5	48.5	Pass
27	62.0	51.0	Pass
28	62.5	45.0	Pass
29	63.0	48.0	Pass
30	61.5	49.0	Pass
31	59.0	50.0	Pass
32	62.0	48.5	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: $\geq 10N$

Sample (B)

Specimen No.	Warp/Length Yarns Torn (N)	Weft/Width Yarns Torn (N)	Conclusion
1	52.5	46.5	Pass
2	68.5	51.0	Pass
3	57.0	43.0	Pass
4	60.5	47.0	Pass
5	71.0	53.5	Pass
6	66.5	48.0	Pass
7	64.5	49.5	Pass
8	58.5	41.5	Pass
9	61.5	53.0	Pass
10	68.0	49.0	Pass
11	67.0	47.0	Pass
12	67.0	54.0	Pass
13	65.0	52.5	Pass
14	60.0	45.0	Pass
15	57.5	44.5	Pass
16	63.5	45.0	Pass
17	56.5	51.0	Pass
18	67.5	53.5	Pass
19	63.5	45.0	Pass
20	61.0	56.0	Pass
21	72.5	51.0	Pass

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22	66.5	49.0	Pass
23	64.0	49.0	Pass
24	60.5	46.0	Pass
25	61.5	53.0	Pass
26	62.5	52.0	Pass
27	66.5	46.5	Pass
28	63.5	43.5	Pass
29	61.0	43.5	Pass
30	58.5	50.0	Pass
31	62.5	38.5	Pass
32	57.5	47.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥10N

Sample (C)

Specimen No.	Warp/Length Yarns Torn (N)	Weft/Width Yarns Torn (N)	Conclusion
1	57.5	41.0	Pass
2	61.0	48.5	Pass
3	60.0	46.5	Pass
4	57.0	47.0	Pass
5	58.5	52.0	Pass
6	61.0	50.5	Pass
7	64.5	45.5	Pass
8	60.0	50.0	Pass
9	61.5	48.0	Pass
10	58.0	42.5	Pass
11	57.0	44.5	Pass
12	59.5	49.0	Pass
13	55.5	40.0	Pass
14	54.5	49.0	Pass
15	48.5	52.5	Pass
16	66.5	47.0	Pass
17	70.0	43.5	Pass

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18	69.5	46.5	Pass
19	59.0	48.0	Pass
20	65.5	48.5	Pass
21	60.5	46.5	Pass
22	66.0	51.0	Pass
23	66.5	50.5	Pass
24	61.5	48.5	Pass
25	57.0	46.5	Pass
26	62.0	45.5	Pass
27	69.0	49.5	Pass
28	68.0	51.0	Pass
29	60.0	55.0	Pass
30	71.5	48.5	Pass
31	66.5	54.0	Pass
32	69.0	49.0	Pass
No of pass specimens		32/32	
Overall result:		Acceptable	

Requirement: ≥10N

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Section 7.3 Evaporative Resistance

(ASTM F1868-17, Procedure Part B)

Test conditions

1. Air temperature: $35.0 \pm 0.5^{\circ}\text{C}$
2. Relative humidity: $40 \pm 4\%$ R.H.
3. Air speed: 1.0 m/s
4. Temperature of hotplate: $35.0 \pm 0.5^{\circ}\text{C}$
5. Orientation of test specimen: Specimens lied flat across the measurement unit with the side normally facing the human body towards the measuring unit. Fabric back side (skin contact side) is in contact with hotplate

Sample (A)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), $\text{kPa} \cdot \text{m}^2/\text{W}$ -Critical zone	Evaporative resistance of sample alone (R_{ef}), $\text{kPa} \cdot \text{m}^2/\text{W}$ -Noncritical zone
1	0.330	0.154
2	0.406	0.135
3	0.406	0.141
4	0.656	0.123
5	0.513	0.197
6	0.407	0.202
7	0.630	0.175
8	0.506	0.157
9	0.371	0.130
10	0.370	0.146
11	0.296	0.140
12	0.326	0.156
13	0.298	0.130
14	0.336	0.226
15	0.517	0.161
16	0.374	0.155
17	0.396	0.247
18	0.299	0.238
19	0.227	0.218
20	0.238	0.260
21	0.270	0.242
22	0.280	0.168
23	0.238	0.255
24	0.268	0.229
25	0.375	0.205
26	0.340	0.176
27	0.295	0.194
28	0.278	0.151
29	0.375	0.146
30	0.358	0.301
31	0.278	0.175
32	0.317	0.261

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Sample (B)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Critical zone	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Noncritical zone
1	0.290	0.238
2	0.290	0.168
3	0.523	0.408
4	0.312	0.201
5	0.419	0.178
6	0.508	0.165
7	0.320	0.195
8	0.328	0.206
9	0.356	0.216
10	0.516	0.175
11	0.402	0.207
12	0.265	0.226
13	0.278	0.171
14	0.295	0.145
15	0.279	0.142
16	0.301	0.161
17	0.336	0.220
18	0.406	0.227
19	0.368	0.218
20	0.393	0.170
21	0.386	0.178
22	0.426	0.238
23	0.298	0.275
24	0.265	0.188
25	0.295	0.197
26	0.227	0.219
27	0.352	0.151
28	0.376	0.140
29	0.317	0.167
30	0.358	0.228
31	0.279	0.196
32	0.376	0.278

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Sample (C)

Specimen No.	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Critical zone	Evaporative resistance of sample alone (R_{ef}), kPa·m ² /W-Noncritical zone
1	0.244	0.335
2	0.373	0.339
3	0.318	0.172
4	0.378	0.209
5	0.464	0.195
6	0.379	0.237
7	0.465	0.293
8	0.385	0.209
9	0.420	0.127
10	0.333	0.158
11	0.296	0.178
12	0.352	0.301
13	0.401	0.276
14	0.260	0.217
15	0.273	0.175
16	0.368	0.140
17	0.425	0.258
18	0.501	0.230
19	0.252	0.153
20	0.230	0.148
21	0.318	0.140
22	0.358	0.169
23	0.347	0.216
24	0.353	0.168
25	0.403	0.174
26	0.275	0.158
27	0.299	0.218
28	0.335	0.269
29	0.417	0.164
30	0.516	0.189
31	0.436	0.178
32	0.358	0.150

Remarks:

1. Evaporative resistance R_{ef} , a quantity specific to textile materials or composites, determines the latent evaporative heat flux across a given area in response to a steady applied water-vapour pressure gradient.
2. The evaporative heat flux may consist of both diffusive and conductive components.
3. The lower the evaporative resistance, the easier the water vapour transmission and more comfortable the clothing should be to wear.

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Section 7.3 Abrasion resistance

(ASTM D4966-12(Reapproved 2016); Option 1, Martindale wear & Abrasion tester; Pressure: 9kPa)

Sample (A)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000

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Sample (B)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000

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Sample (C)

Specimen No.	Unit	Endpoint
1	Rubs	>100000
2	Rubs	>100000
3	Rubs	>100000
4	Rubs	>100000
5	Rubs	>100000
6	Rubs	>100000
7	Rubs	>100000
8	Rubs	>100000
9	Rubs	>100000
10	Rubs	>100000
11	Rubs	>100000
12	Rubs	>100000
13	Rubs	>100000
14	Rubs	>100000
15	Rubs	>100000
16	Rubs	>100000
17	Rubs	>100000
18	Rubs	>100000
19	Rubs	>100000
20	Rubs	>100000
21	Rubs	>100000
22	Rubs	>100000
23	Rubs	>100000
24	Rubs	>100000
25	Rubs	>100000
26	Rubs	>100000
27	Rubs	>100000
28	Rubs	>100000
29	Rubs	>100000
30	Rubs	>100000
31	Rubs	>100000
32	Rubs	>100000



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Sample Photo



Face

Back

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

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