

Test Report **SL52025258746901TX** **Date: May 29, 2020** **Page 1 of 4**
ZHEJIANG LANGQI FASHION CO., LTD
TUDIAN TEXTILE INDUSTRIAL PARK, TONGXIANG CITY, ZHEJIANG PROVINCE, CHINA

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

Sample Description : (A)Surgical gown
Sample Color : (A)blue
Manufacturer : ZHEJIANG LANGQI FASHION CO., LTD
Sample Receiving Date : May 27, 2020
Testing Period : May 27, 2020 - May 29, 2020
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).
Test Performed : Selected test(s) as requested by applicant

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

Sara Guo (Account Executive)

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Testing Center (China) 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Test Result

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)

As received

Weight of blotter gained (g)	1#	2#	3#	4#	5#
Area A (Critical zone-front)	0.3	0.2	0.3	0.1	0.1
Area B (Critical zone-sleeve)	0.1	0.0	0.0	0.0	0.1
Area C(Front)	0.1	0.0	0.0	0.0	0.0
Area D(Back)	0.0	0.0	0.0	0.0	0.0
Seam between areas C&D	0.2	0.1	0.3	0.2	0.2

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)

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)	1#	2#	3#	4#	5#
Area A (Critical zone-front)	8.67	10.0	10.5	12.3	11.7
Area B (Critical zone-sleeve)	13.5	15.7	13.0	12.0	14.4
Area C(Front)	13.4	13.9	12.8	14.4	18.7
Area D(Back)	>50.0	>50.0	>50.0	>50.0	>50.0
Seam between areas C&D	20.7	14.4	15.0	16.8	18.3

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



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)	0.3	8.67	/	Level 1	Level 1
Area B (Critical zone-sleeve)	0.1	12.0	/	Level 1	
Area C(Front)	0.1	12.8	/	Level 1	
Area D(Back)	0.0	>50.0	/	Level 3	
Seam between areas C&D	0.3	14.4	/	Level 1	
<p>Remark:</p> <ul style="list-style-type: none"> ● 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. 					



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Sample Photo



Face

Back

End of Report

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