

**TEST REPORT**

Job No./Report No TR1826346

Date: 26 November 2020

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**PLATIN MODA TASARIM TEKSTİL SAN .VE DIŞ TİC. LTD. ŞTİ.**  
ÇOBANÇEŞME MAH. SELVİ SOK. NO :3 KAT:3 BAHÇELİEVLER

**To the attention of Nihan Oy**

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

Sample No.	Sample Description
A	SURGICAL GOWN - LEVEL 4

Client's reference No. : TR 1826346  
Colour : Blue  
Article No. : BFDG-NS-55-04  
Manufacturer : PLATIN MODA TASARIM TEKSTİL SAN .VE DIŞ TİC. LTD. ŞTİ.  
Country of Destination : USA  
Sample Receiving Date : 09 November 2020  
Resubmit Date : 20 November 2020  
Test Performing Period : 09 November 2020~26 November 2020  
**Overall Conclusion : SEE RESULTS**

Test Results : Please refer to the next page(s).  
**Performed Test Summary:** Selected test(s) as requested by client against Client's performance standard.

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Test Parameters	Result
<b>Physical tests</b>	<b>A</b>
Tensile Strength	*
Fabric Weight	*
Flammability of Textiles	*
Water Resistance: Hydrostatic Pressure Test	M
Tear Strength	*
Water Resistance: Impact Penetration Test	M
Resistance of Materials Used in Protective Clothing to Penetration	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

The test results relate to the tested items only.  
Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul  
Signed for and on behalf of  
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

**NOTE: RESISTANCE OF MATERIALS USED IN PROTECTIVE CLOTHING TO PENETRATION TEST RESULT WAS ADDED.**

Mert Kurtuluş  
Customer Services Supervisor

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager




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<b>Tear Strength<sup>1</sup></b>			
Test Method:		ASTM D5587-15 (2019)	
Sample ID&Colour	Warp	Weft	Requirement by the Client
A	5,455 lbf	4,227 lbf	No Requirement
<b>Conclusion</b>		<b>See Results</b>	

<b>Tensile Strength<sup>1</sup></b>			
Test Method:		ASTM D5034-09(2017)	
Test Conditions:		Number of test specimens in each direction: 5	
		Type of test specimens: Grab	
		Test Machine: Constant rate of extension	
		Size of jaw: Front: 25x25 mm, Back: 25x50 mm	
		Pretension: 170 g	
		State of test specimens: Conditioned	
Sample ID&Colour	Warp	Weft	Requirement by the Client
A	24,45 lbf	19,05 lbf	No Requirement

<b>Fabric Weight<sup>1</sup></b>		
Test Method:		ASTM D3776/ D3776M-20 Option A
Sample ID&Colour	Original	Requirement
(a1)	56 g/m <sup>2</sup>	No Requirement

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### Flammability of Textiles<sup>1</sup>

Test Method: 16 CFR 1610  
**Sample ID&Colour:** A) SURGICAL GOWN - LEVEL 4  
 Fabric Surface: PLAIN FABRIC FACE

<u>As Received</u>			<u>After Dry-cleaning and Laundering *</u>		
<u>Z</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Z</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>
(1)	8,9		(1)	-	IBE
(2)	9,0		(2)	-	IBE
(3)	-	IBE	(3)	-	IBE
(4)	-	IBE	(4)	-	IBE
(5)	-	IBE	(5)	-	IBE
(6)	-		(6)	-	
(7)	-		(7)	-	
(Avg.)	9,0		(Avg.)	-	

Flammability Classification : Class 1

Client's Requirement : No Requirement

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

Class 2 Intermediate Flammability: Class 2 fabrics, applicable only to raised fiber surface textiles, are considered to be of intermediate flammability, but may be used for clothing.

Class 3 Rapid and Intense Burning: Class 3 textiles exhibit rapid and intense burning, are dangerously flammable and shall not be used for clothing.

\* Drycleaning / Laundering procedure is according to 16 CFR 1610:6(b).

### Burn Code Description:

#### For Plain Surface textile fabrics:

IBE = Ignited, but extinguished

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**Water Resistance: Impact Penetration Test <sup>1</sup>**
**Test Method:** AATCC 127:2017 Option 2

 Test Conditions:60 cm H<sub>2</sub>O / face

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	<b>Requirement</b>  ≥ 50 cm
Critical zone – Front panel	52,2	56,2	57,7	50,7	54,0	
Critical zone – Sleeve panel	52,1	52	55,9	50,8	53,9	
Critical zone – Back panel	52,0	56,1	55,6	50,6	53,8	
Critical zone – Sleeve seam	241,2	244,2	262,0	255,4	251,3	
Critical zone – Point off attachment (belt)	242	243	262,1	255,3	250,1	
<b>Conclusion</b>	<b>Pass</b>					

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### Water Resistance: Impact Penetration Test

Test Method: AATCC 42:2007

Test Side: Face Side

As Received

Observation:

#### Weight of blotter gained (g)

	Specimen 1	Specimen 2	Specimen 3
Critical zone – Front panel	0	0	0
Critical zone – Sleeve panel	0	0	0
Critical zone – Back panel	0	0	0
Critical zone – Sleeve seam	0	0	0
Critical zone – Point off attachment (belt)	0	0	0

**Remark:** Liquid barrier performance and classification of protective apparel as per ANSI/AAMI PB70-2012

- Level 4: All critical zone components shall have a blotter weight gain of no more than 1.0 grams (g).

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**Barrier performance of fabric and final classification commended**

	Impact Penetration Test AATCC 42 (g)	Level	Water Resistance Hydrostatic Pressure Test	Level	Final Classification
Critical zone – Front panel	0	Level 4	27,7	Level 4	*
Critical zone – Sleeve panel	0	Level 4	25,9	Level 4	
Critical zone – Back panel	0	Level 4	27,6	Level 4	
Critical zone – Sleeve seam	0	Level 4	262,0	Level 4	
Critical zone – Point off attachment (belt)	0	Level 4	262,1	Level 4	

\*: For final classification please check Surgical gowns, isolation gowns and other protective apparel-Resistance to bacteriophage ASTM F1671 test page.

Note : Lowest test results was taken from the submitted garment for the final classification.

**Remark:**

- 1) The barrier performance of all critical zone compenents, including seams and points of attachment, shall be determined. The classification of surgical gown shall be a number denoting the performance of the critical zone component having the lower barrier performance.

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### Resistance of Materials Used in Protective Clothing to Penetration

#### Sampling Method:

The three samples used in this test.

Sample Size: 75 mm×75 mm

#### Requirement:

Test Method : F1671/F1671M-13  
 Procedure Used : Procedure A  
 Loading Suspension : 60 mL PhI-X174 Bacteriophage  
 Test Conditions : Min 24sa, (21±5) °C, (60±10) RG  
 Test Microorganism : Bacteriophage PhI-X 174  
 Penetration Survey Method : Plaque-forming Units (PFU)

#### Test Equipment:

Penetration Test Cell

#### Assesment:

No of Sample	Hydrostatic Pressure	Pre-Challenge Concentration (PFU/mL)	Past-Challenge Concentration (PFU/mL)	Assay Titer (PFU/mL)	Visual Penetration	Result
Sample 1	13.8 kPa	$3.3 \times 10^8$	$2.0 \times 10^8$	< 1 <sup>a</sup>	Non seen	Pass
Sample 2	13.8 kPa	$3.3 \times 10^8$	$2.0 \times 10^8$	< 1 <sup>a</sup>	Non seen	Pass
Sample 3	13.8 kPa	$3.3 \times 10^8$	$2.0 \times 10^8$	< 1 <sup>a</sup>	Non seen	Pass
Negative Control	13.8 kPa	$3.3 \times 10^8$	$2.0 \times 10^8$	< 1 <sup>a</sup>	Non seen	Acceptable
Positive Control	13.8 kPa	$3.3 \times 10^8$	$2.0 \times 10^8$	TNTC <sup>b</sup>	Yes	Acceptable

\*Pass: The sample resist to penetration and synthetic blood doesn't pass through the fabric.

\*Fail: The sample doesn't resist to penetration and synthetic blood doesn't pass through the fabric.

<sup>a</sup>TNTC: PFU were too numerous to count.

<sup>b</sup>A value of >1 plaque forming units (PFU)/mL is reported for assay plates showing no plaques.

#### Material Compatibility Rate = 1.5

It is SUITABLE for the product according to the criteria.

\*\*This test has been performed at accredited laboratory as subcontracted.

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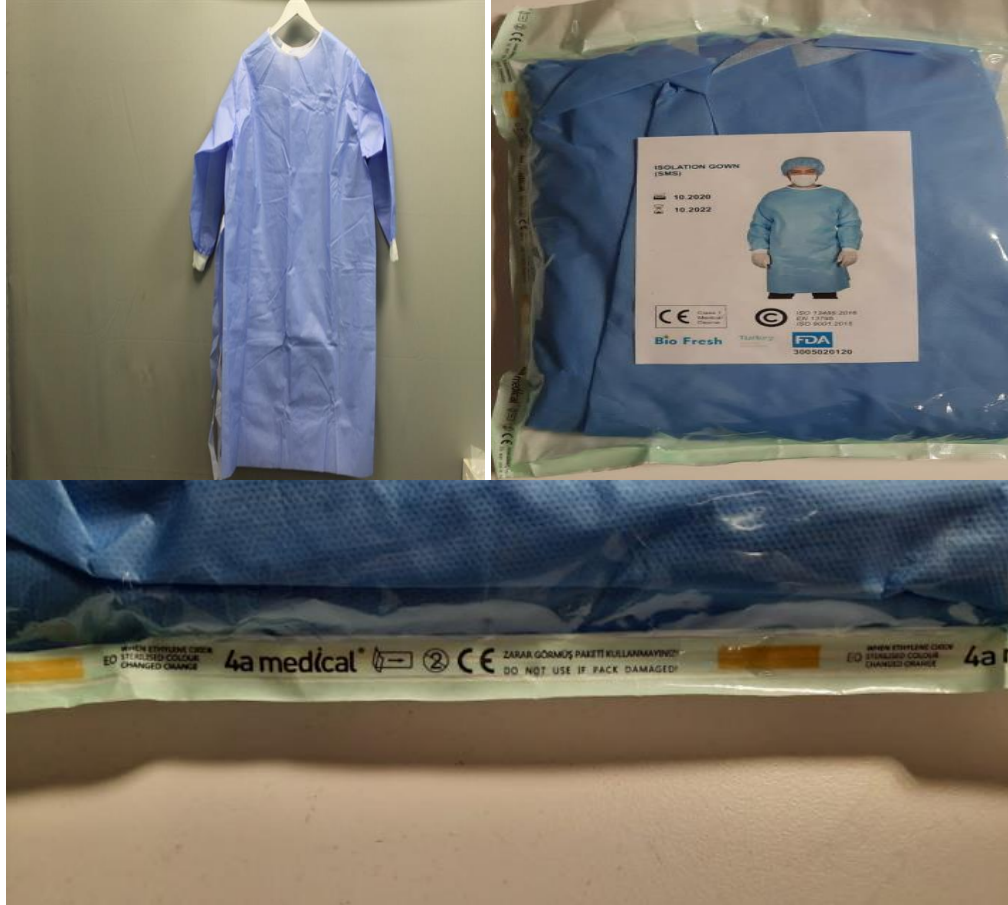


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End of Test Report

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