

**TEST REPORT**

Job No./Report No TR1854306 Date:15 January 2021

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**NARKONTEKS A.Ş.**

DOĞUŞ CAD. 3/19 SOK. NO:12 BEGOS BUCA İZMİR TÜRKİYE

TEL: 05056253613

**To the attention of Onur Bağ**

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

Sample No.	Sample Description
A	9040 KORUYUCU ÖNLÜK

Client's reference No. : TR 1854306  
Colour : White  
Article No. : 9040  
Manufacturer : NARKONTEKS TEKSTİL İHR. İTH. SAN. VE TİC. A.Ş.  
Country of Destination : USA  
Sample Receiving Date : 05 January 2021  
Test Performing Period : 05 January 2021~15 January 2021  
**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	*
Seam Strength	*
Flammability of Textiles	*
Water Vapor Resistance (ASTM F1868-17 Part B)	*

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.

Mert Kurtuluş  
Customer Services Supervisor

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager




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

Test Method: 16 CFR 1610  
**Sample ID&Colour:** A- 9040 KORUYUCU ÖNLÜK  
 Fabric Surface: PLAIN FABRIC FACE

**As Received****After Dry-cleaning and Laundering \*****Length****Length**

<u>Z</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>		<u>Flame Spread (sec.)</u>	<u>Burn Code</u>
(1)	9,1	-	(1)	9,7	-
(2)	9,0	-	(2)	9,1	-
(3)	9,4	-	(3)	9,4	-
(4)	8,9	-	(4)	9,0	-
(5)	8,7	-	(5)	9,2	-
(Avg.)	9,0	-	(Avg.)	9,3	-

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:***

\_\_ sec. = Actual burn time measured and recorded by the timing device.

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<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	
<b>Sample ID&amp;Colour</b>	<b>Warp</b>	<b>Weft</b>	<b>Requirement by the Client</b>
A	29,92 lbf	19,50 lbf	<b>No Requirement</b>
<b>Conclusion</b>	<b>See Results</b>		

Seam Strength (Garment) <sup>1</sup>					
Test Method:		ASTM D1683/ D1683M-17(2018)			
Sample ID&Colour A	Right		Left		Requirement by the Client
ARMHOLE SEAM	Seam Strength:	18,1 lbf	Seam Strength:	16 lbf	No Requirement
	Seam Slippage:	18,1 lbf	Seam Slippage:	16 lbf	
SHOULDER SEAM	Seam Strength:	26 lbf	Seam Strength:	26 lbf	
	Seam Slippage:	26 lbf	Seam Slippage:	26 lbf	
SLEEVE SEAM	Seam Strength:	13 lbf	Seam Strength:	17 lbf	
	Seam Slippage:	13 lbf	Seam Slippage:	17 lbf	
Conclusion	See Results				

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**Test Result****Water Vapour Resistance**

(ASTM F1868-17, Procedure Part B; Test Conditions:1. Air temperature: 35.0±0.5°C2. Relative humidity: 40±4% 3. Air speed: 1.0 m/s4. Temperature of hotplate: 35.0±0.5°C5. 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.)

-	Unit	A
Mean Evaporative Resistance of Sample Alone(Ref)	kPa.m²/W	0.412

**Remark:**

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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**Sample Photo**

**\*\*This test has been performed at SGS Shanghai as subcontracted.**

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End of Test Report

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