



**EKOTEKS**

**EKOTEKS LABORATUVAR ve GÖZETİM  
HİZMETLERİ A.Ş**

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar  
İstanbul/ TÜRKİYE



AB-0583-T
2400008546
11.24

**TEST REPORT**  
*DENEY RAPORU*

**Report Nr / Revision Nr :** 2400008546  
**Customer name :** ARMA KUMAS VE PERDE ANONİM ŞİRKETİ  
**Applicant Address :** Orta Mahalle Numunebağı Cd. No 64 / 66  
Bayrampaşa / İstanbul  
**Buyer name :** -  
**Contact Person :** SEMRA DURNA  
**Sample Accepted on :** 13.11.2024  
**Re-submitted/re-confirmation date :** -  
**Date of test :** 15.11.2024 / 28.11.2024  
**Fiber Composition :** Claimed to be :-  
**Sample Description :** Green woven fabric

**Order No :** -  
**Model Number :** MORENODB 7822Z  
**Previous Report No :** -

**Sampling :** The results given in this report belong to the received sample by vendor.  
**End use :** -  
**Care label :** -

**Decision Rule :** -  
**Disclaimer Statement :** -  
**Conformity Assessment :** -

*The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports. EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. accredited by TÜRKAK under registration number [AB-0583-T] for ISO 17025:2017 as test laboratory.*

*The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.*

Seal

Date  
28.11.2024

Customer Representative  
BUKET ÇALIS

Laboratory Manager  
Sevim A. RAZAK  
28.11.2024



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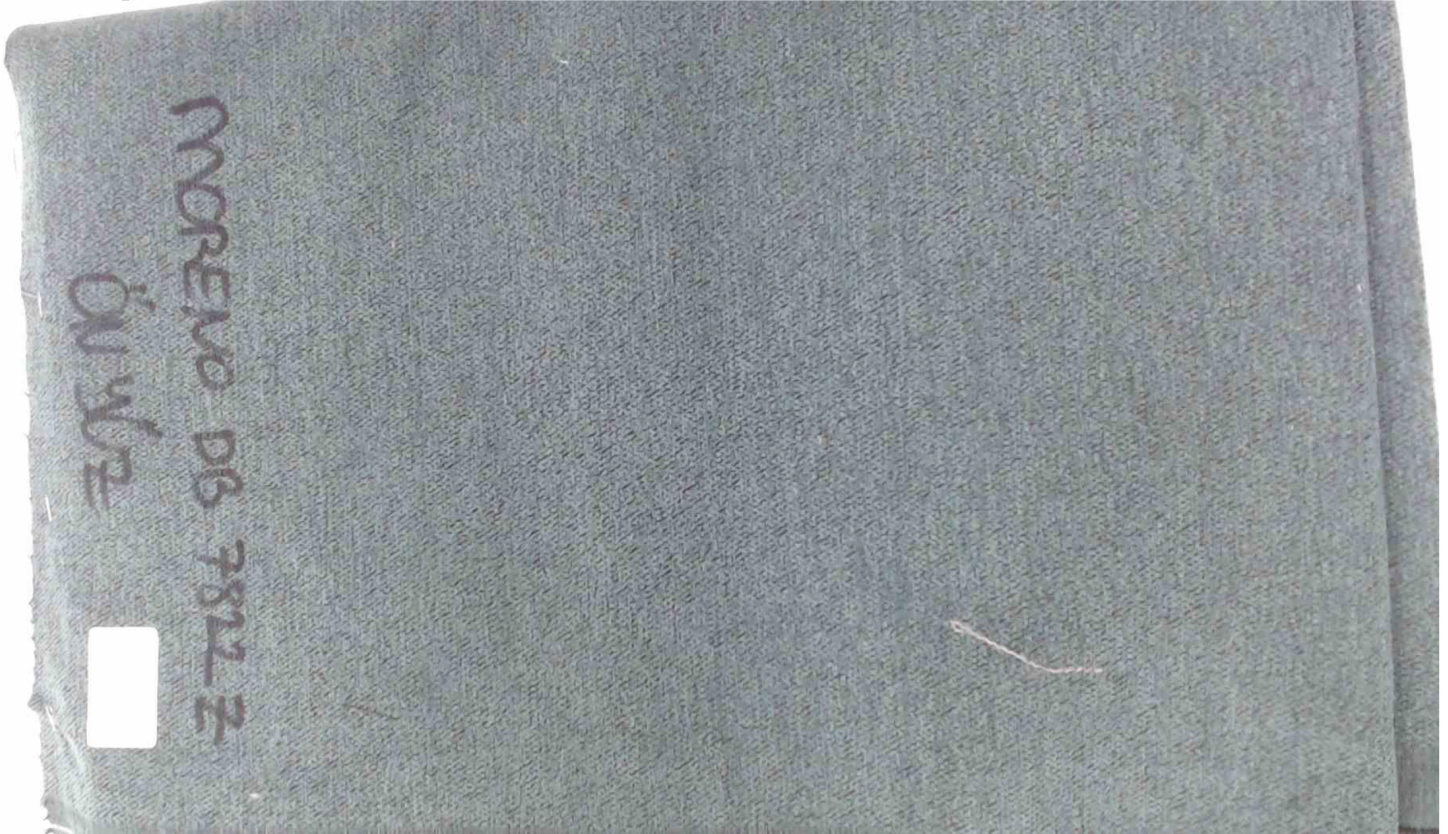
11.24

TEST RESULTS

TEST	METHOD	EVALUATION
COLOUR FASTNESS TO SEA WATER	ISO 105-E02:2013	-
COLOUR FASTNESS TO CHLORINATED WATER (SWIMMING POOLWATER)	ISO 105-E03:2010	-
COLOUR FASTNESS TO RUBBING	ISO 105-X12:2016	-
ABRASION	ISO 12947-2:2016	-
SPREY TEST	ISO 4920:2012	-
MICROBIOLOGICAL TEST	ASTM E2149:2020	-

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%. The declaration of conformity was given in accordance with the Simple Acceptance Decision Rule. (without considering the level of confidence and measurement uncertainty, evaluation of suitability or non-conformity based on whether the test result obtained is only within the specified limits) Tests marked (\*) in this report are not included in the accreditation schedule.

**Photo of the sample received**



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**TEST RESULTS**

**SPECIMEN DESCRIPTION :**

**COLOUR FASTNESS TO SEA WATER**

ISO 105-E02:2013

37±2°C@4 hours. DW multifiber . Perspirometer

Evaluated with ISO 105 A02 and ISO 105 A03 standart grey scale

Parameters	RESULT	REQUIREMENT	EVALUATION
Color change	4-5	-	-

Part Nr	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	Requirement	Evaluation
1-	4-5	4-5	4-5	4-5	4-5	4-5		

Total Uncertainty (grade): ±0.5

**COLOUR FASTNESS RATING**

	COLOUR CHANGE	COLOUR STAINING
5	Negligible or no change	5 Negligible or no staining
4	Slightly changed	4 Sightly stained
3	Noticeably changed	3 Noticeably stained
2	Considerably changed	2 Considerably stained
1	Much changed	1 Much stained

**SPECIMEN DESCRIPTION :**

**COLOUR FASTNESS TO CHLORINATED WATER (SWIMMING POOLWATER)**

ISO 105-E03:2010

27±2°C,Gyrowash @1 hours, pH 7.50± 0.05

Evaluated with ISO 105 A02 standard color change gray scale.

Parameters	RESULT	REQUIREMENT	EVALUATION
Color change	4	-	-

Aktif Klor Miktarı : 20 mg / L

Total uncertainty : ± 0.5 grade

**COLOUR FASTNESS RATING**

**COLOUR CHANGE**

5	Negligible or no change
4	Slightly changed
3	Noticeably changed
2	Considerably changed
1	Much changed

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## TEST RESULTS

### SPECIMEN DESCRIPTION :

#### COLOUR FASTNESS TO RUBBING

ISO 105-X12:2016

Device: Crockmeter

Performed in the conditioned room(20±2°C-65%±4)

Downward force : 9±0.2 N

Water absorption rate of rubbing cloth : 95 % - 100 %

Evaluated with ISO 105 A03 standart grey scale for staining assessment.

Parameters	RESULT	REQUIREMENT	EVALUATION
Dry	4	-	-
Wet	4-5	-	-

Total Uncertainty (grade): ±0.5

### COLOUR FASTNESS RATING

#### COLOUR STAINING

5	Negligible or no staining
4	Slightly stained
3	Noticeably stained
2	Considerably stained
1	Much stained

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**TEST RESULTS**

**SPECIMEN DESCRIPTION :**

**ABRASION**

ISO 12947-2:2016

cycle (47.5±2 rpm)

Performed in the conditioned room (20±2°C-65%±4).

Criteria for the end point in the evaluation are given in the table below.

Parameters	RESULT (@ REVS)	COMMENT	REQUIREMENT
Revs-1	47.000 Abrasion 3 thread breeakage	-	-
Revs -2	48.000 Abrasion 3 thread breeakage	-	-
Revs 3-	50.000 Abrasion 3 thread breeakage	-	-
Total result	47.000 Abrasion 3 thread breeakage	-	-

Martindale J&H

Load : 12 kPa basınç (795 ±7)g kütle

END-POINT CRITERIA (a)

Fabric Type

	"Thread breakage" Criteria:	Worn off area" Criteria
Woven Fabric (without pile)	Two threads completely broken	NA
Knitted Fabric (without pile)	One thread completely broken	NA
Pile Fabrics:		
Cut Pile Woven Fabric	One thread completely broken	
OR Fully Worn Off Area	(Knitted Fabric)	
Cut Pile Knitted Fabric		
Fabric Made With Chenille Yarns	Two threads completely broken	
Uncut Pile Fabric	(Woven Fabric)	
Raised Fabric	One thread completely broken	
	(Knitted Fabric)	NA
	Two threads completely broken	
	(Woven Fabric)	
Flocked Fabric	NA	Fully Worn Off Area
Nonwoven Fabric	Hole in the Fabric (b)	NA

a : Alternative test specimen breakdown point criteria could be used as agreed between the interested parties and should be reported.

b :A hole is of a diameter at least equal to 2,5 mm, which means that the surface layer is worn away by forming a hole so that a layer with a different appearance or a backing fabric is visible when viewed through the template

N.A: Not Applicable

\*The overall result is the lowest individual test result of all the test specimens tested.

Total uncertainty: ± % 13,8

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**TEST RESULTS**

**SPECIMEN DESCRIPTION :**

**SPREY TEST**

ISO 4920:2012

Performed in the conditioned room (21±2°C-65±5% RH)

Original

Parameters	RESULTS	REQUIREMENT	EVALUATION
Result 1	ISO 3	-	-
Result 2	ISO 3	-	-
Result 3	ISO 3	-	-

Total Uncertainty (grade): ±0,5

- 100 (ISO 5) No sticking or wetting of the specimen face
- 90 (ISO 4) Slight random sticking or wetting of the specimen face
- 80 (ISO 3) Wetting of specimen face at spray points
- 70 (ISO 2) Partial wetting of specimen face beyond the spray points
- 50 (ISO 1) Complete wetting of the entire specimen face beyond the spray points
- 0 (ISO 0) Complete wetting of the entire face of the specimen

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## TEST RESULTS

**Test Method: ASTM E2149: 2020** Standard Test Method for Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions

### Sample details

<b>Type of material tested</b>	Ceramic sheet
<b>Weight or size of test specimen</b>	1 g

<b>Untreated test specimen (If present)</b>	Ceramic sheet, as above, without antibacterial treatment
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### Test conditions

<b>Temperature (°C)</b>	35 ± 2
<b>Contact time</b>	60 ± 5 min

### Microorganism

<b>Species and strain number</b>	<i>Staphylococcus aureus</i> ATCC 6538P (Gram (+))
<b>Bacterial concentration of test solution at the "0" time (CFU/mL)</b>	2.39 x 10 <sup>5</sup>

### Results of viable counts

Number of viable bacteria recovered from the flask containing the <b>treated specimen after contact time</b> CFU/mL ( <b>A</b> ) log CFU/mL ( <b>log A</b> )	1.08 x 10 <sup>2</sup> 2.03
Number of viable bacteria recovered from the " <b>inoculum only</b> " flask <b>after contact time</b> CFU/mL ( <b>B</b> ) log CFU/mL ( <b>log B</b> )	2.09 x 10 <sup>5</sup> 5.32
Is the difference between <i>B</i> and <i>C</i> values <b>less than 15%</b> of each other?	Yes

### Antibacterial activity (*R*)

If the difference between the control sample and the 'inoculum only' is within 15%, it is calculated according to B.

<b><math>R\% = ((B - A)/(B)) \times 100</math></b>	<b>3.29</b> <b>&gt;99.95</b>	± measurement of uncertainty (95% CI)	0.46 0.023
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