



EKOTEKS

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

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE



AB-0583-T
2400008550
11.24

TEST REPORT
DENEY RAPORU

Report Nr / Revision Nr : 2400008550
Customer name : ARMA KUMAS VE PERDE ANONİM SİRKETİ
Applicant Address : ORTA MAHALLE NUMUNEBAGI CD NO 66
BAYRAMPASA / 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 :80 % PES 20 %OLF 390 mg/kg
Sample Description : Green woven fabric
Order No : -
Model Number : MORENO KB7822K
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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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 (Main)	3-4	-	-
Color change (Green)	4-5	-	-

Aktif Klor : 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	4-5	-	-
Wet	4-5	-	-

Cihaz Parmak Tipi : Silindirik

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	Abrasion (3 thread breakage) @30.000	-	-
Revs 2	Abrasion (3 thread breakage) @32.000	-	-
Revs 3	Abrasion (3 thread breakage) @32.000	-	-
Total	Abrasion (3 thread breakage) @30.000	-	-

Martindale J&H

Load : 12 kPa (795 ±7)g kütle

END-POINT CRITERIA (a)

Fabric Type

Woven Fabric (without pile)

Knitted Fabric (without pile)

"Thread breakage" Criteria:

Two threads completely broken

One thread completely broken

"Worn off area" Criteria

NA

NA

Pile Fabrics:

Cut Pile Woven Fabric

OR Fully Worn Off Area

Cut Pile Knitted Fabric

Fabric Made With Chenille Yarns

Uncut Pile Fabric

One thread completely broken
(Knitted Fabric)

Two threads completely broken
(Woven Fabric)

Raised Fabric

One thread completely broken
(Knitted Fabric)

Two threads completely broken
(Woven Fabric)

NA

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

Type of material tested	Ceramic sheet
Weight or size of test specimen	1 g

Untreated test specimen (If present)	Ceramic sheet, as above, without antibacterial treatment
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Test conditions

Temperature (°C)	35 ± 2
Contact time	60 ± 5 min

Microorganism

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

Results of viable counts

Number of viable bacteria recovered from the flask containing the treated specimen after contact time CFU/mL (A) log CFU/mL (log A)	5.33 x 10 ¹ 1.73
Number of viable bacteria recovered from the " inoculum only " flask after contact time CFU/mL (B) log CFU/mL (log B)	2.09 x 10 ⁵ 5.32
Is the difference between <i>B</i> and <i>C</i> values less than 15% 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.

R % = ((B - A)/(B)) x 100	3.59	± measurement of uncertainty (95% CI)	0.46
	>99.97		0.0138