STUDIES IN THE MERKED	EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE TEST REPORT	TÜRKAR TÜRKAR Tis En ISO/IEC 17025 AB-0583-T
EKOTEKS	DENEY RAPORU	
		AB-0583-T
		23007700- ing
		05-23
	HASSAN TEKSTİL SANAYİ VE TİCAR	ET AS.
Customer name:		
Address:	AKÇABURGAZ MAH.HADIMKÖY YO ESENYURT/İSTANBUL	
Buyer name:	HASSAN TEKSTİL SANAYİ VE TİCAR	ET AŞ.
Contact Person:	-	
Order No:	2023-02	
Article No:	-	
Name and identity of test iten	<i>i</i> : One sample of grey panel.(claimed to be; I	1000 gsm/Grey)
The date of receipt of test iter	<i>n</i> : 28.03.2023	
<i>Re-submitted/re-confirmation date:</i>	ı -	
Date of test:	28.03.2023-25.05.2023	
Remarks: Sampling:	- The results given in this report belong to th	a received sample by vendor
End-Use:	-	ie received sample by vendor.
Care Label:	-	
Number of pages of the repor	<i>t</i> : 6	
co-operation for the Accredi Mutual recognition of test rep EKOTEKS LABORATUVAN number [AB-0583-T] for ISO The test and/or measuremen	Agency (TURKAK) is signatory to the multilate tation (EA) and of the International Laborate ports. 2 ve GÖZETİM HİZMETLERİ A.Ş. accredited 9 17025:2017 as test laboratory. t results, the uncertainties (if applicable) with owing pages which are part of this report.	ory Accreditation (ILAC) for the l by TÜRKAK under registration
Seal Dat 25.05.2	1	<i>Head of Testing Laboratory</i> Sevim A. RAZAK 25.05.2023

This report shall not be reproduced other than in full except with the permission of the laboratory. *Testing reports without signature and seal are not valid*.

AB-0583-T
23007700- ing
05-23

REQUIRED TESTS	EVALUATION	COMMENTS
MICROBIOLOGICAL TESTS		
Determination of Antibacterial Activity of Textile Products	Р	

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. Tests marked (*) in this report are not included in the accreditation schedule



This report shall not be reproduced other than in full except with the permission of the laboratory. *Testing reports without signature and seal are not valid.*

TEST RESULTS Test Method: ISO 20743:2021 - Determination of Antibacterial Activity of Textile Products Sample details

AB-0583-T 23007700ing 05-23

Type of material tested	FABRİC
Weight of specimens	0.4 g
Sterilization method of specimens	Autoclave (121°C, 15 min)
Washing method and number	-
wasning method and number	-

Control specimens	100 % cotton fabric without fluorescent brighteners or other
	finish

Methods and test conditions

Inoculation method	Absorption method
Measuring method	Plate count method
Test temperature (°C)	37 ± 2
Contact time	24 h
The date the test was done	16.05.2023

Microorganism

Species and strain number	Staphylococcus aureus ATCC 6538 (Gram (+))
Concentration of test inoculum	2.33 x 10 ⁵ CFU/mL
Inoculation volume	0.2 mL

Results of viable counts

Number of viable bacteria recovered from the control specimens (<i>n</i> =		
3) after contact time		
CFU/specimen (<i>C</i> _t)	1,38 x 10 ⁸	
log CFU/specimen (lg C_t)	8,14	
Number of viable bacteria recovered from the control specimens (<i>n</i> =		
3) immediately after inoculation		
CFU/specimen (C ₀)	4,17 x 10 ⁴	
log CFU/specimen (lg C_0)	4.62	
Number of viable bacteria recovered from the test specimens $(n=3)$		
after contact time		
CFU/specimen (T_t)	3,19 x 10 ⁴	
log CFU/specimen (lg T_t)	4,50	
Number of viable bacteria recovered from the test specimens $(n=3)$		
immediately after inoculation		
CFU/specimen (T_o)	$3,14x \ 10^4$	
log CFU/specimen (lg T_{θ})	4,50	

Growth values

Growth value on the control specimens (F)	3,52
Growth value on the test specimens (G)	0,01

Antibacterial activity (A)

A = F - G	3,51	\pm measurement of uncertainty (95% CI)	1,76
The sample tested can be considered to have significant antibacterial efficacy according to the criteria given			
in the ISO 20743 ($2 \le A < 3$)			

AB-0583-T
23007700- ing
05-23

The sample tested can be considered to have **strong** antibacterial efficacy according to the criteria given in the ISO 20743 ($A \ge 3$)

The sample tested has **no significant** antibacterial efficacy according to the criteria given in the ISO 20743 (A < 2)

TEST RESULTS Test Method: ISO 20743:2021 - Determination of Antibacterial Activity of Textile Products Sample details

AB-0583-T 23007700ing 05-23

Type of material tested	FABRİC
Weight of specimens	0.4 g
Sterilization method of specimens	Autoclave (121°C, 15 min)
Washing method and number	-
wasning method and number	-

Control specimens	100 % cotton fabric without fluorescent brighteners or other
	finish

Methods and test conditions

Inoculation method	Absorption method
Measuring method	Plate count method
Test temperature (°C)	37 ± 2
Contact time	24 h
The date the test was done	16.05.2023

Microorganism

Species and strain number	Esherichia coli ATCC8739 (Gram (-))
Concentration of test inoculum	2.57 x 10 ⁵ CFU/mL
Inoculation volume	0.2 mL

Results of viable counts

Number of viable bacteria recovered from the control specimens (<i>n</i> =	
3) after contact time	
CFU/specimen (C _t)	5,12 x 10 ⁸
log CFU/specimen (lg C_t)	8,71
Number of viable bacteria recovered from the control specimens (<i>n</i> =	
3) immediately after inoculation	
CFU/specimen (C ₀)	4,63 x 10 ⁴
log CFU/specimen (lg C_{θ})	4.67
Number of viable bacteria recovered from the test specimens $(n=3)$	
after contact time	
CFU/specimen (T_t)	1,03 x 10 ⁷
log CFU/specimen (lg T_t)	7,01
Number of viable bacteria recovered from the test specimens $(n=3)$	
immediately after inoculation	
CFU/specimen (T_o)	3,93x 10 ⁴
log CFU/specimen (lg T_{θ})	4,59

Growth values

Growth value on the control specimens (F)	4,04
Growth value on the test specimens (G)	2,42

Antibacterial activity (A)

A = F - G	1,62	\pm measurement of uncertainty (95% CI)	-
The sample tested can be considered to have significant antibacterial efficacy according to the criteria given			
in the ISO 20743 ($2 \le A < 3$)	_		_

AB-0583-T
23007700- ing
05-23

The sample tested can be considered to have **strong** antibacterial efficacy according to the criteria given in the ISO 20743 ($A \ge 3$)

The sample tested has **no significant** antibacterial efficacy according to the criteria given in the ISO 20743 (A < 2)