



EKOTEKS

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Test
TS EN ISO/IEC 17025
AB-0583-T

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

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE

TEST REPORT
DENEY RAPORU

AB-0583-T

18027890

07-18

Customer name: ARITEKS BOYACILIK TİCARET VE SAN. A.Ş.
Address: Velimeşe OSB Mah. Hacı Şeremet 5. Sokak 9/9 ERGENE/ TEKİRDAĞ
Buyer name: -
Contact Person: ÖZGÜR KUŞKU
Order No: -
Article No: -
Name and identity of test item: One sample of (claimed to be 100% PES; YELLOW) neon yellow woven fabric.
The date of receipt of test item: 10.07.2018
Re-submitted/re-confirmation date: -
Date of test: 10.07.2018-16.07.2018
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: -
Care Label: Not specified.
Number of pages of the report: 4

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.

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
17.07.2018

Customer Representative
N. Fisun EROL

Head of Testing Laboratory
Sevim A. RAZAK

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REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TESTS		
Determination of Antibacterial Activity	-	
No requirement was given by vendor.		

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



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TEST RESULTS

Test Method: ASTM E2149:2013a

RESULTS	
Untreated (Control) Sample	Treated (Test) Sample
after specified contact time*	after specified contact time*
1.50x10 ⁶ cfu/ml	< 30 cfu/ml
6.18 log	-

*The amount of growing bacteria on fabric
cfu: colony forming units

Antimicrobial Activity	RESULT	Evaluation
Reduction, %	% 99.99	Effective

Mikroorganism	<i>Staphylococcus aureus</i> (ATCC 6538 (Gram(+)))
Bacterial concentration (cfu/ ml)	2.83 x10 ⁵
Inoculum volume	50 ml
Size of sample	1g
Number of washing	-
Washing method	-
Incubation time, temperature	24 hours, 35° C ± 2° C
Contact time	24 hours

R %= Reduction is calculated by the following formula;

$$\%R = ((C-A)/C) \times 100$$

A = CFU per millilitre for the flask containing the treated substrate after the specified contact time.

B= CFU per millilitre for the 'inoculum only' flask after the specified contact time.

C = CFU per millilitre for the flask containing the untreated substrate after the specified contact time.

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TEST RESULTS

Test Method: ASTM E2149:2013a

RESULTS	
Untreated (Control) Sample	Treated (Test) Sample
after specified contact time*	after specified contact time*
5.20x10 ⁶ cfu/ml	< 30 cfu/ml
6.72 log	-

*The amount of growing bacteria on fabric
cfu: colony forming units

Antimicrobial Activity	RESULT	Evaluation
Reduction, %	% 99.99	Effective

Mikroorganism	<i>Escherichia coli</i> (ATCC 25922 (Gram(-)))
Bacterial concentration (cfu/ ml)	2.43 x10 ⁵
Inoculum volume	50 ml
Size of sample	1g
Number of washing	-
Washing method	-
Incubation time, temperature	24 hours, 35° C ± 2° C
Contact time	24 hours

R %= Reduction is calculated by the following formula;

$$\%R = ((C-A)/C) \times 100$$

A = CFU per millilitre for the flask containing the treated substrate after the specified contact time.

B= CFU per millilitre for the 'inoculum only' flask after the specified contact time.

C = CFU per millilitre for the flask containing the untreated substrate after the specified contact time.