



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

16001047-
ing

01-16

Customer name: KASTAMONU ENTEGRE AĞAÇ SAN. A.Ş.
Address: Tavşanlı Köyü Taşocakları Mevkii GEBZE/ KOCAELİ
Buyer name: -
Contact Person: İLTER EREN
Order No: -
Article No: -
Name and identity of test item: One sample of brown, beige laminate panel.
The date of receipt of test item: 11.01.2016
Re-submitted/re-confirmation date:
Date of test: 11.01.2016-20.01.2016
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: Laminate
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
20.01.2016

Customer Representative
N. Fisun EROL

Head of Testing Laboratory
Sevim A. RAZAK

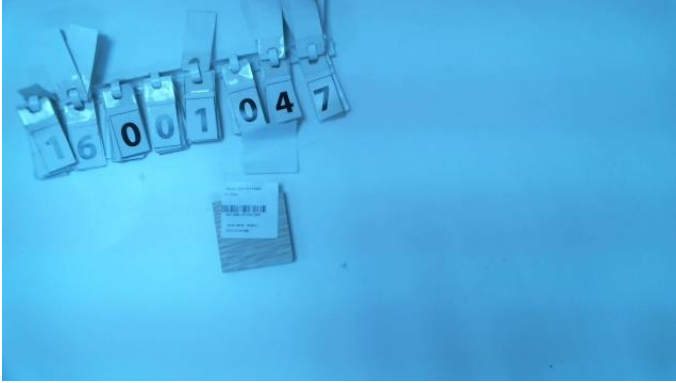
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REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TESTS		
Antibacterial Activity (<i>Staphylococcus aureus</i> ATCC 6538 P(Gram(+)))	-	
Antibacterial Activity (<i>Escherichia Coli</i> ATCC 8739 Gram (-))	-	
No requirements were given.		

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

ANTIBACTERIAL ACTIVITY: ISO 22196:2011

Microorganism	<i>Staphylococcus aureus</i> ATCC 6538 P(Gram(+))
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Untreated (Control) Sample	Number of Bacteria (cfu/cm ²)		Logarithmic Reduction Log (cfu/cm ²)	
	Contact time (0 h)	After incubation (24 h)	Log (U ₀)	Log (U _t)
	3.63x10 ⁴	4.06x10 ³	4.56	3.61

Treated (Test) Sample	Number of Bacteria (cfu/cm ²)		Logarithmic Reduction Log (cfu/cm ²)	
	After incubation (24 h)		Log (A _t)	
	<6.25		<0.80	

Antibacterial Activity Value	Result	Evaluation
R= (U _t)-(A _t)	R>2.81	
%R	%99.0	Effective

Inoculation volume	0,4 ml
Measuring method	Plate count method
Type of sample material	polymer
Size of sample	5x5 cm ²
Incubation conditions	35 ± 1 °C, 24 ± 1 h, % 90 relative humidity
Concentration of inoculum (CFU/ml)	9X10 ⁵

R: Antibacterial activity

U₀: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the untreated test specimens immediately after inoculation

U_t: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the untreated test specimens after 24 h

A_t: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the treated test specimens after 24 h

Note:According to JIS Z 2801:2012 method, the value of Antibacterial Activity which is R, must equal or bigger than 2.

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TEST RESULTS

ANTIBACTERIAL ACTIVITY: ISO 22196:2011

Microorganism	<i>Escherichia coli</i> ATCC 8739 Gram (-)
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Untreated (Control) Sample	Number of Bacteria (cfu/cm ²)		Logarithmic Reduction Log (cfu/cm ²)	
	Contact time (0 h)	After incubation (24 h)	Log (U ₀)	Log (U _t)
	1.36x10 ⁴	8.13x10 ⁵	4.13	5.91

Treated (Test) Sample	Number of Bacteria (cfu/cm ²)		Logarithmic Reduction Log (cfu/cm ²)	
	After incubation (24 h)		Log (A _t)	
	<6.25		<0.80	

Antibacterial Activity Value	Result	Evaluation
R= (U _t)-(A _t)	R>5.11	
%R	%99.0	Effective

Inoculation volume	0,4 ml
Measuring method	Plate count method
Type of sample material	polymer
Size of sample	5x5 cm ²
Incubation conditions	35 ± 1 °C, 24 ± 1 h, % 90 relative humidity
Concentration of inoculum (CFU/ml)	5X10 ⁵

R: Antibacterial activity

U₀: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the untreated test specimens immediately after inoculation

U_t: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the untreated test specimens after 24 h

A_t: is the logarithm of the number of viable bacteria, in cells/cm², recovered from the treated test specimens after 24 h

Note: According to JIS Z 2801:2012 method, the value of Antibacterial Activity which is R, must equal or bigger than 2.