

## TEST DETAIL

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

20036637
10-20

### TEST RESULTS

Test Method : ASTM E2180:2018 (\*)

Determining the Activity of Incorporated Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials

<b>Microorganism</b>	<i>Staphylococcus aureus</i> (ATCC 6538)
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Untreated (Control) Sample	Number of Bacteria ( cfu/ml )	Logarithmic Reduction Log ( kob/ml )
	After incubation (24 h)	Log
	8.75x10 <sup>2</sup>	2.94

Treated (Test) Sample	Number of Bacteria ( kob/ml )	Logarithmic Reduction Log ( kob/ml )
	After incubation (24 h)	Log
	3.13	0.49

Antibacterial Activity Value	Result	Evaluation
%R	%99.99	Effective

Inoculation volume	0.5ml
Measuring method	Plate count method
Type of sample material	Fabric
Size of sample	3x3 cm <sup>2</sup>
Incubation conditions	35 ± 2 °C, 24 h , % 75 relative humidity
Concentration of inoculum (CFU/ml)	2.4X10 <sup>5</sup>

R: Antibacterial activity

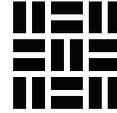
$$\%R = ((a-b)/a) \times 100$$

a: the antilog of the geometric mean of organisms recovered from the incubation period control samples

b: the antilog of the geometric mean of organisms recovered from the incubation period treated samples

# AMBIENT RENEW

COMMERCIAL PVC FREE



TEXTSTYLE

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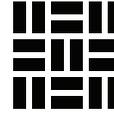
10-20

REQUIRED TESTS	RESULT	COMMENTS
<b>PHYSICAL PROPERTIES TESTS</b>		
Antibacterial Activity/ ASTM E2180:2018(*)	-	
No requirements was given by vendor.		

**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.



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*Testing reports without signature and seal are not valid.*



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Antibacterial Activity Value	Result	Evaluation
%R	%99.99	Effective

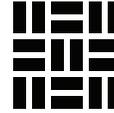
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Microorganism	<i>Klebsiella pneumonia</i> ATCC 4352 (Gram (-))
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Untreated (Control) Sample	Number of Bacteria ( cfu/ml )	Logarithmic Reduction Log ( kob/ml )
	After incubation (24 h)	Log
	1.28x10 <sup>3</sup>	3.11

Treated (Test) Sample	Number of Bacteria ( kob/ml )	Logarithmic Reduction Log ( kob/ml )
	After incubation (24 h)	Log
	3.97x10 <sup>4</sup>	4.60

Antibacterial Activity Value	Result	Evaluation
%R	%99.99	Effective

Inoculation volume	0.5 ml
Measuring method	Plate count method
Type of sample material	Fabric
Size of sample	3x3 cm <sup>2</sup>
Incubation conditions	35 ± 2 °C, 24 h , % 75 relative humidity
Concentration of inoculum (CFU/ml)	3X10 <sup>5</sup>

R: Antibacterial activity

$$\%R = ((a-b)/a) \times 100$$

a: the antilog of the geometric mean of organisms recovered from the incubation period control samples

b: the antilog of the geometric mean of organisms recovered from the incubation period treated samples