

Textilní zkušební ústav, s.p.
Václavská 237/6, 603 00 Brno, Česká republika
(Textile Testing Institute)

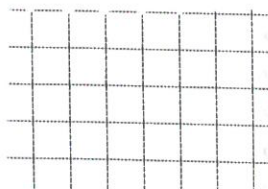
TESTING LABORATORY NO. 1001
accredited according to EN ISO/IEC 17025:2005 by the Czech Accreditation Institute

TEST REPORT

AZL 19/ 0113-01a

CUSTOMER: FabricAir A/S
Islandsvej 3
4681 Herfølge
Denmark

SAMPLE: Lite 15 (with antibacterial treatment)
(according to the customer order) Lite 20 (with antibacterial treatment)
Reference sample without antibacterial treatment
Colour: white
Fibre composition: 100 % polyester



SUBJECT OF ASSESSMENT: Determination of antibacterial activity - Agar diffusion plate test

CONDITIONS OF APPLICATION OF THE TEST REPORT:

Test Report contains result of the tests related to the submitted sample only. Sampling has been done by customer. The Report may not be reproduced in the way other than as a complete set. Reproduction of certain parts of the Report is subject to approval of the test laboratory, which has issued it. All information about subcontracted tests results or unaccredited test methods is presented in text part of the test report.

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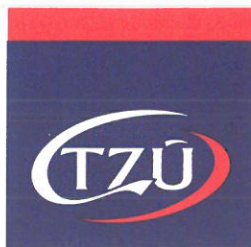
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PROCEDURE OF ASSESSMENT:

Textile fabrics - Determination of antibacterial activity - Agar diffusion plate test
was determined according to EN ISO 20645.

Used bacteria (cultures delivered from National institute of public health and Czech collection of Microorganisms):

CNCTC 6120	<i>Klebsiella pneumoniae</i>
CCM 4516	<i>Staphylococcus aureus</i>

Conditions of assessment:

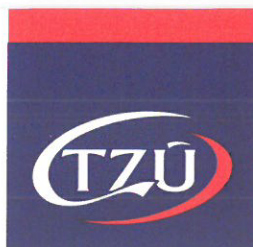
- diameter of test specimen: Ø 25 mm
- number of samples: 16 treated samples, 16 untreated references
- storage of the specimens prior to the test: at room temperature in sterilized Petri dishes
- temperature in incubator: (37 ± 1) °C
- influence time: 24 h

The bacterial growth in the nutrient medium under the test specimen was assessed according to following table:

Mean value of inhibition zone (mm)	Growth	Assessment
> 1	none	good effect
1 - 0	none	
0	none	
0	slight	limit of efficacy
0	moderate	insufficient effect
0	heavy	

Result: Assessment of bacterial growth in the nutrient medium under the test specimen with corresponding assessment.





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TEST RESULTS:

Lite 15 (with antibacterial treatment) – reverse side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	none (IZ = 6 mm)	good effect
			<i>S. aureus</i>	none (IZ = 5 mm)	good effect

IZ...inhibition zone

Lite 15 (with antibacterial treatment) – face side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	none (IZ = 3 mm)	good effect
			<i>S. aureus</i>	none (IZ = 3 mm)	good effect

IZ...inhibition zone

Lite 20 (with antibacterial treatment) – reverse side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	none (IZ = 5 mm)	good effect
			<i>S. aureus</i>	none (IZ = 4 mm)	good effect

IZ...inhibition zone





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Lite 20 (with antibacterial treatment) – face side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	none (IZ = 4 mm)	good effect
			<i>S. aureus</i>	none (IZ = 2,5 mm)	good effect

IZ...inhibition zone

Reference sample without antibacterial treatment – reverse side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	heavy	insufficient effect
			<i>S. aureus</i>	heavy	insufficient effect

Reference sample without antibacterial treatment – face side Fibre composition: 100 % polyester					
Characteristics	Test method	Measuring unit	Growth		Assessment
Determination of antibacterial activity - Agar diffusion plate test	EN ISO 20645	Growth	<i>K. pneumoniae</i>	heavy	insufficient effect
			<i>S. aureus</i>	heavy	insufficient effect

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