

## TEXTILNÍ ZKUŠEBNÍ ÚSTAV, s.p.

(TEXTILE TESTING INSTITUTE)
CERTIFICATION BODY FOR THE CERTIFICATION OF PRODUCTS
VÁCLAVSKÁ 6, 658 41 BRNO

issues

to the applicant: PŘÍHODA s.r.o., Za Radnicí 476, 539 01 Hlinsko v Čechách, Czech Republic

## TESTIMONIAL

No.: 17 – 147

This testimonial confirms that the product:

fabric PMI (fabric with antibacterial treatment)

- new fabric

- fabric after 10 cycles of washing 40°C

Material composition: 100% polyester Colour: white, mass per unit area 220 g.m<sup>-2</sup>

## complies with the requirements of:

- EN ISO 20645:2004 Textile fabrics Determination of antibacterial activity Agar diffusion plate test regarding to antibacterial effect of the antibacterial treatment Article 10, Table No.1
- EN ISO 20743:2013 Textiles EN ISO 20645 Textile fabrics Determination of antibacterial activity of textile products regarding to antibacterial activity of the antibacterial treatment Annex F, Table F.1

Based upon the acquired level of antibacterial activity it has been proved that the assessed sample produces good antibacterial efficiency – strong antibacterial activity.

Good antibacterial efficiency was detected on new PMI fabric and on PMI fabric after 10 cycles of washing 40°C.

This testimonial has been issued on the basis of the application No. COV/17/345 from 30.11.2017. The base for this testimonial is the test protocol No. AZL 17/1273-01 and No. AZL 17/1273-02 from 01.12.2017, issued by the accredited test laboratory of TZÚ Brno. Detailed conditions of testing have been specified in the test protocols.

Validity up to: 31.12.2019

Testimonial was issued: Brno, 06.12.2017

Issued by:

Ing. Svatava Horáčková Head of certification body



Textilní zkušební ústav, s.p.

TZÚ Brno, COV, Testimonial 17-147

List: 1/1

Annex No.1

Assessed parameters – fabric PMI new / after 10 cycles of washin	Assessed parameters -	fabric PMI nev	v / after 10 cycles	of washing
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Characteristic	Test method	Measuring unit	Value required	Value identified	Evaluation		
Fabric PMI: new material – without washing / material after 10 cycles of washing 40 °C							
Antibacterial activity  - antibacterial effect of the antibacterial treatment  • inhibition zone  • growth of bacteria	EN ISO 20645	mm -	good antibacterial effect > 1 /1-0 /0 > 1 /1-0 /0 none 1) none 2)	16 / 2 1) 16 / 2 2) none / none 1) none / none 2)	S S S S good antibacterial effect		

Explanation: S – satisfy

1) – Staphylococcus aureus, 2) – Klebsiella pneumoniae

Reference material: fabric PMS without washing (fabric without antibacterial treatment, 100%

polyester, white) - produces strong growth of bacteria and insufficient

antibacterial effect

Tested bacteria: 1) Staphylococcus aureus (CCM 4516) - grampositive bacteria

2) Klebsiella pneumoniae (CNCTC 6120) - gramnegative bacteria

Assessed parameters – fabric PMI new / after 10 cycles of washing

Characteristic	Test	Measuring		Value identified	Evaluation		
	method	unit	required				
Fabric PMI: new material – without washing / material after 10 cycles of washing 40 °C							
Antibacterial efficiency Antibacterial value A - significant - heavy	EN ISO 20743	-	$2 \le A < 3$ $A \ge 3$	A > 5,71 / A = 4,89 <sup>1)</sup> A > 7,22 / A = 5,59 <sup>2)</sup>	S heavy antibacterial activity		

Explanation: S – satisfy

1) – Staphylococcus aureus, 2) – Klebsiella pneumoniae

Reference material: **fabric PMS after 1 cycle of washing** fabric without antibacterial treatment, 100% polyester, white) – produces strong growth of bacteria and insufficient antibacterial

effect

Tested bacteria: 1) Staphylococcus aureus (CCM 4516) - grampositive bacteria

2) Klebsiella pneumoniae (CNCTC 6120) - gramnegative bacteria

Assessed material – fabric PMI new and after 10 cycles of washing 40 °C produces good antibacterial effect – heavy antibacterial activity.

