



Textilní zkušební ústav

**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.: 15 – 185**

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>, thickness 0,30 mm

**complies with the requirements of:**

- **EN ISO 20645 Textile fabrics – Determination of antibacterial activity – Agar diffusion plate test** regarding to antibacterial effect of the antibacterial treatment – Article 10, Table No.1 (*new fabric*)
- **EN ISO 20743 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 (*fabric after 10 cycles of washing 40°C*)

**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/15/284 from 29.10.2015. The base for this testimonial is the test protocol No. AZL 15/1023-06 from 05.11.2015 and No. AZL 15/1023-02 from 26.10.2015, issued by the accredited test laboratory of TZÚ Brno. Detailed conditions of testing have been specified in the test protocols.

Validity up to: 30.11.2017

Testimonial was issued: Brno, 23.11.2015

Issued by:

Ing. Svatava Horáčková  
Head of certification body





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TZÚ Brno, COV, Testimonial 15-185  
List: 1/1

Annex No.1

Assessed parameters – **fabric PMI new**

Characteristic	Test method	Measuring unit	Value required	Value identified	Evaluation
<b>Fabric PMI – new, without washing</b>					
<b>Antibacterial activity</b> – antibacterial effect of the antibacterial treatment • inhibition zone  • growth of bacteria	EN ISO 20645	mm	good antibacterial effect		
			> 1 /1-0 /0	<b>9</b> <sup>1)</sup>	<b>S</b>
		> 1 /1-0 /0	<b>8</b> <sup>2)</sup>	<b>S</b>	
		none <sup>1)</sup> none <sup>2)</sup>	<b>none</b> <sup>1)</sup> <b>none</b> <sup>2)</sup>	<b>S</b> <b>S</b>	
					<b>good antibacterial effect</b>

Explanation: S – satisfy <sup>1)</sup> – Gram positive bacterial strain <sup>2)</sup> – Gram negative bacterial strain

Reference material: **fabric PMS without washing** – produces strong growth of bacteria (fabric without antibacterial treatment, 100% polyester, white)

Tested bacteria: 1) Staphylococcus aureus (CCM 4516) - gram positive bacteria  
2) Klebsiella pneumoniae (CNCTC 6120) - gram negative bacteria

Assessed parameters – **fabric PMI after 10 cycles of washing**

Characteristic	Test method	Measuring unit	Value required	Value identified	Evaluation
<b>Fabric PMI – material after 10 cycles of washing 40 °C</b>					
<b>Antibacterial efficiency</b> <b>Antibacterial value A</b> - significant - heavy	EN ISO 20743	-	$2 \leq A < 3$ $A \geq 3$	<b>A = 5,15</b> <sup>1)</sup> <b>A = 4,64</b> <sup>2)</sup>	<b>S</b> <b>heavy antibacterial activity</b>

Explanation: S – satisfy <sup>1)</sup> – Gram positive bacterial strain <sup>2)</sup> – Gram negative bacterial strain

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

Tested bacteria: 1) Staphylococcus aureus (CCM 4516) - gram positive bacteria  
2) Klebsiella pneumoniae (CNCTC 6120) - gram negative bacteria

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

