

RESEARCH NETWORK ŁUKASIEWICZ -  
INSTITUTE FOR ENGINEERING OF POLYMER MATERIALS AND DYES  
Research Laboratory "Polymer" TB



IS/KJ-7.8-2-F1 ed. 5 of June 01, 2021

Toruń on August 04<sup>th</sup>, 2022

Applies to:

Test report no **TB/45-46/BIO/2022** of August 03<sup>th</sup>, 2022

With regard to the results of the determination tests:

**1) antibacterial properties of polymer material**

**2) fungistatic properties of the polymer material**

made in accordance with: **1) ISO 22196:2011, 2) PN-EN ISO 846:2019**

for samples: **45/BIO/2022 relative to a control sample 46/BIO/2022**

based on:

- information and data provided by the customer - **not applicable**\*)
- knowledge available in standards, monographs and scientific publications – **ISO 22196:2011 and PN-EN ISO 846:2019**\*)
- knowledge available in studies of research carried out as part of research and development activities at the Institute – **research cards**\*)

the following opinion/interpretation is presented:

**After incubation on sample 46 / BIO / 2022, a reduction in the number of E. coli (99.96%) and S. aureus (99.98%) bacteria was observed compared to the control sample.**

**The test results refer only to the tested objects.**

Performed by:

Lider Obszaru

.....  
dr Katarzyna Janiczak  
signature

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\*) If applicable, describe in detail the source of knowledge; if not applicable, write "not applicable"