

**PRZEDSIĘBIORSTWO USŁUGOWO REMONTOWE**  
**REMODEX**  
**ZAKŁAD BADAŃ I WDROŻEŃ PRZEMYSŁU MEBLARSKIEGO**  
Spółka z o.o.

Gruszczyn, ul. Leśna 12  
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SIGN: BW/PB/176/2025

DATE: 2025-09-29

Order from: 2025-07-14

## TEST REPORT

### Determination of the abrasion resistance of fabric by Martindale method

- CLIENT

STEMA P.S.A.  
ul. Towarowa 22A  
58-100 ŚWIDNICA

1. Name and type of article -

**Fabric A-YNV**

2. Type of test

- **resistance to abrasion by Martindale method**

- loading – nominal pressure 12 kPa  
- translational movement along Lissajous tracks

- inspection intervals after 1000, 2000, 5000  
- the number cycles: average – **40.000**  
(after 10 000 cycles pilling appears, after 40.000 cycles abrasion of the top layer of fabric)

- **resistance to pilling**

(modified Martindale's method)  
- loading – 260 g,  
- translational movement along Lissajous tracks

- after 2000 cycles – degree of change **5**  
**(no changes)**  
- after 5000 cycles – degree of change **5**  
**(no changes)**

3. This article was tested in accordance with the test procedures described in:

**PN-EN ISO 12947-2:2017**  
**PN-EN ISO 12945-2:2021**  
for conformity with PN-EN 14465:2005/A1:2007, annex A

#### TEST RESULTS:

#### POSITIVE

**Article fulfill the requirements PN-EN 14465:2005/A1:2007, annex A. at the level category B**

**Attention:** The test sample was acclimated according to PN-EN ISO 139:2006/A1:2012

Test operator

  
/M Sc. (Eng.) Piotr Błaszczak/

PREZES ZARZĄDU

  
mgr inż. Piotr Błaszczak

TEST REPORT contain 1 page

The test results are only valid for the article tested.

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## TEST REPORT

### Determination of the abrasion resistance of fabric by Martindale method

- CLIENT

STEMA P.S.A.  
ul. Towarowa 22A  
58-100 ŚWIDNICA

1. Name and type of article -

**Fabric A-TR**

2. Type of test

- **resistance to abrasion by Martindale method**

- loading – nominal pressure 12 kPa  
- translational movement along Lissajous tracks

- inspection intervals after 1000, 2000, 5000 and 10000 cycles

- the number cycles: average – **200.000**  
(after 200 000 cycles no abrasion of fabric was found, tests completed. Fabric damaged the abrader)

- **resistance to pilling**

(modified Martindale's method)  
- loading – 260 g.  
- translational movement along Lissajous tracks

- after 2000 cycles – degree of change **5**  
**(no changes)**  
- after 5000 cycles – degree of change **5**  
**(no changes)**

3. This article was tested in accordance with the test procedures described in:

**PN-EN ISO 12947-2:2017**  
**PN-EN ISO 12945-2:2021**  
for conformity with PN-EN 14465:2005/A1:2007, annex A

#### TEST RESULTS:

#### POSITIVE

**Article fulfill the requirements PN-EN 14465:2005/A1:2007, annex A. at the level category A**

**Attention:** The test sample was acclimated according to PN-EN ISO 139:2006/A1:2012

Test operator

.....  
/M Sc. (Eng.) Piotr Błaszczak/

PREZES ZARZĄDU

.....  
mgr inż. Piotr Błaszczak

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