

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

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SIGN: BW/PB/237/20

DATE: 2020-12-07

Order from: 2020-08-30

## TEST REPORT

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

1. *Name and type of article -*

**Fabric ZN-2**

2. *CLIENT -*

P.H. „STEMA” Stefan Boczyło  
ul. Towarowa 22A  
58-100 ŚWIDNICA

3. *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 cycles  
- the number cycles: average **-35.000**  
( after 40 000 cycles – wiping the top layer of the 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)**

4. *Documents identifying article -*

order.

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

**PN-EN ISO 12947-2:2017**  
**PN-EN ISO 12945-2:2002**  
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

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.

This TEST REPORT shall not be reproduced, except in full, without the written approval of the laboratory.

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SIGN: BW/PB/238/20

DATE: 2020-12-07

Order from: 2020-08-30

## TEST REPORT

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

- |  |  |
|--|--|
| <b>1. Name and type of article -</b>                             | <b>Fabric ZN-3</b>   |
| <b>2. CLIENT -</b>   | P.H. „STEMA” Stefan Boczyło<br>ul. Towarowa 22A<br>58-100 ŚWIDNICA   |
| <b>3. Type of test</b>   |  |
| - <b>resistance to abrasion by Martindale method</b>             | - inspection intervals after 1000, 2000, 5000 and 10000 cycles   |
| - loading – nominal pressure 12 kPa                              | - the number cycles: average <b>–100.000</b>   |
| - translational movement along Lissajous tracks                  | (after approx. 20 000 cycles, the fabric begins to discolor edges of samples; after approx.. 50 000 discoloration on the entire surface of the rubbed samples) |
| - <b>resistance to pilling</b><br>(modified Martindale’s method) | - after 2000 cycles – degree of change <b>5</b><br><b>(no changes)</b>   |
| - loading – 260 g,   | - after 5000 cycles – degree of change <b>5</b><br><b>(no changes)</b>   |
| - translational movement along Lissajous tracks                  |  |
| <b>4. Documents identifying article -</b>                        | order.   |

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

**PN-EN ISO 12947-2:2017**  
**PN-EN ISO 12945-2:2002**  
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

Test operator

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

PREZES ZARZĄDU

.....  
mgr inż. Piotr Błaszczak

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