

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

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SIGN: BW/JK/46/18

DATE: 2018-02-28

Order from: 2017-12-28

## TEST REPORT

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

1. *Name and type of article* - Fabric TW-S1
2. *CLIENT* - P.H. „STEMA” Stefan Boczyło  
ul. Bystrzycka 17  
58-100 ŚWIDNICA
3. *Type of test*
- **resistance to abrasion by Martindale method**
    - inspection intervals after 1000, 2000, 5000 and 10000 cycles
    - loading – nominal pressure 12 kPa
    - translational movement along Lissajous tracks
    - the number cycles: average – **50.000**
    - after 60000 cycles partial wipe of fibers.
  - **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 **4-5 (light pilling)**
4. *Documents identifying article* - order.

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

**PN-EN ISO 12947-2:2000**  
**PN-EN ISO 12945-2:2002**  
for conformity with PN-EN 14465:2005, annex A


*TEST RESULTS:*

**POSITIVE**

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

**Attention:** The test sample was acclimated according to PN-EN 20139:1993 (ISO 139)

Test operator

  
.....  
/M Sc. (Eng.) Jacek Konieczny

PREZES ZARZĄDU

  
mgr inż. Piotr Blaszczyk

TEST REPORT contain 1 pages

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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REMODEX**

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SIGN: BW/JK/50/18

DATE: 2018-02-28

Order from: 2017-12-28

**TEST REPORT**

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

1. *Name and type of article -* **Fabric TW-N1**
2. *CLIENT -* P.H. „STEMA” Stefan Boczyło  
ul. Bystrzycka 17  
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 and 10000 cycles
  - the number cycles: average – **100.000**
  - **no destruction point is obtained in all four samples; no damage 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)**
4. *Documents identifying article -* order.

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


**PN-EN ISO 12947-2:2000**  
**PN-EN ISO 12945-2:2002**  
for conformity with PN-EN 14465:2005, annex A

**TEST RESULTS:**

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

**Attention:** The test sample was acclimated according to PN-EN 20139:1993 (ISO 139)

Test operator

  
/M Sc. (Eng.) Jacek Konieczny

PREZES ZARZĄDU

  
mgr inż. Piotr Błaszczak

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