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UNIA DLA PRZEDSIĘBIORCZYCH

Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego

UNIA EUROPEJSKA

# Laboratorium Badań Surowców i Wyrobów Włókienniczych Siedziba: ul. Brzezińska 5/15, 92-103 Łódź, tel. +48(0) 42 6163140 Siedziba: ul. Gdańska 118. 90-520 Łódź. tel. +48(0) 42 2534421



## LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

# TEST CERTIFICATE NO. BM 2.13.1.2 / 2015 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o. ,Wadowicka Str.12; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery fabric REAL, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 25.08.2015
- 4. Date of test performance: 02.09.2015
- 5. Samples taken by: correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
- 6. Tests carried out according to: methods presenting in testing table

### **Results of Laboratory Tests**

see page 2/2

### Test performed by: Danuta Ławniczak

- 1. Test results refer only to the tested material.
- 2. Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
- 3. Test Certificate presents test results included within accreditation field of testing.
- 4. Test results noit includet in accreditation scope, if occur, are marked with \*) in the test results table, at the parameter name.
- 5. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.

## Certificate date: 03.09.2015 Number of Certificate copies: 3 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków - 2 copies
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy

#### Certificate prepared by: Patrycja Bak

Person authorizing the Test Certificate: Name and surname: Halina Królikowska Head of the Laboratory Function: Signature: enniczych nictwa mgr inż. Ha Krolikowska -verte-





# TEST CERTIFICATE NO. BM 2.15.2.2 / 2015 / B / A

| Parameter  |                        | Value                           | Remarks   |  |
|--|------------------------|---------------------------------|---|--|
| Propensity<br>to surface fuzzing<br>and pilling, | the number of rubs 500 | 5                               | PN-EN ISO 12945-2:2002<br>(modified Martindale method)  |  |
|  | 1 000                  | 5                               | Test conditions:<br>the abradant: the standard woolen fabric;<br>mass of weight: $415 \pm 2$ g; |  |
|  | 2 000                  | 4 - 5<br>Slight surface fuzzing |   |  |

The end of Test Certificate

# Person authorizing the Test Certificate

Kierownik ium Badań Surowców obw Wickienniczych ut Wickiennictwa 1: mgr inż. Halina Królikowska

|   | Value                         | Remarks   |
|---|-------------------------------|---|
| Parameter   |                               | PN-EN ISO 13936-2:2005  |
| Seam slippage resistance, mm:<br>Warp<br>The mean value of seam slippage resistance<br>for lengthwise direction, mm<br>- individual results, mm | <b>4</b><br>3,5; 3,5; 4; 4; 4 | <i>Test conditions:</i><br>tensile tester: Hounsfield H50 KM,<br>testing force: 180 N,<br>100% PES sewing threads $(74 \pm 5)$ tex,<br>the number of sewing needle: 110<br>the number of stitch: $32\pm2/100$ mm<br>rate of extension: 50 mm/min. |
| Weft<br>The mean value of seam slippage resistance  | 5                             | number of testing specimens: 5  |
| for crosswise direction, mm<br>- individual results, mm   | 5; 4,5; 4,5; 4,5; 4,5         |   |

# TEST CERTIFICATE NO. BM 2.15.2.1 / 2015 / B / A

Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: A category:  $\leq 4$  mm; B category:  $\leq 6$  mm; C category:  $\leq 8$  mm

The end of Test Certificate

Person authorizing the Test Certificate Laboratorium Badan Surowców i Wyłobów Włókienniczych Instytut Włókiegnictwa mgr irż. Halina Królikowska

|   |  | Value   | Remarks  |
|---|--|---|--|
| Parameter   |  |   | PN-EN ISO 12947-2:2000 + AC:2006 +   |
| Abrasion resistance,<br>number of rubs                  | color change<br>after 3 000 rubs,<br>grade of grey scale<br>1 specimen | 4 - 5   | PN-EN ISO 12947-2.2000 The PN-EN 14465:2005+A1:2007, Annex A <i>Test conditions:</i><br>the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa magnification factor in the magnifying device: 8, in holders used foam.<br>Criterion of <u>destruction of the testing</u> <u>specimens in accordance with that standard</u> at least three threads completely destroyed |
|   | 2 specimen   | lack of completely<br>destruction<br>100 000        |  |
|   | 3 specimen   | lack of completely<br>destruction<br>100 000        |  |
|   | 4 specimen   | lack of completely destruction                      | _  |
|   | <b>Total abrasion resistance</b><br>(the lowest individual<br>result)  | <b>100 000</b><br>lack of completely<br>destruction |  |
| Evaluation:<br>according to PN-El<br>B category: number | N 14465:2005 + A1:2007: A<br>er of rubs: 12 000 ÷ 30 000, C            |   | of rubs ≥ <b>35 000 rubs,</b><br>of rubs: 4 000 ÷ 10 000   |

# TEST CERTIFICATE NO. BM 2.15.2.3 / 2015 / B / A

The end of Test Certificate

Klerownik Person authorizing the Less Seen Suroweew i Wyrobow Wickienniczych Instytyt Wickiennictwa królikowska mgr i

# Test Certificate



This certificate confirms that the

Fabric - Ref: ROYAL

Supplied by

# **Toptextil Sp Z.o.o**

has been tested at FIRA International Limited and successfully satisfied the requirements from:

Schedule 4 Part 1 (when tested in combination with a conventional urethane foam of nominal density 20-22kgm<sup>3</sup>, and an 85g thermally bonded polyester fibre wrap) and Schedule 5 Part I of The Furniture and Furnishings (Fire) (Safety) Regulations 1988,

amended 1989, 1993 and 2010. (Based on BS 5852: 1979 Part 1).

The material was watersoaked and line dried prior to test in accordance with the standards.

|                         | Report reference: Th  | FEL F61547 |                     |  |  |
|-------------------------|---|------------|---------------------|--|--|
|                         |   |            |                     |  |  |
|                         |   |            |                     |  |  |
|                         |   |            |                     |  |  |
|                         | SIGNATURE   |            | Liz Morey           |  |  |
|                         | POSITION  | Т          | echnical Specialist |  |  |
|                         | CERTIFICATE DATE  |            | 19 October 2015     |  |  |
|                         | For and on behalf of FIRA INTERNATIONAL LIMITED   |            |                     |  |  |
| FIRA                    | This certificate only relates to the sample(s) supplied and tested at the time. Re-testing at intervals is recommended and should be subject to agreement between the supplier and the purchaser. |            |                     |  |  |
| Part of the Exova Group |   |            |                     |  |  |

FIRA International Ltd Maxwell Road, Stevenage, Hertfordshire SG1 2EW, England.