

92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163140, 42 6163141, fax.+48(0)42 6792638



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 to surface fuzzing and pilling,	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method)	
	1 000	5	Test conditions: the abradant: the standard woolen fabric; mass of weight: $415 \pm 2$ g;	
	2 000	4 - 5 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: Warp The mean value of seam slippage resistance for lengthwise direction, mm - individual results, mm	<b>4</b> 3,5; 3,5; 4; 4; 4	<i>Test conditions:</i> tensile tester: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads $(74 \pm 5)$ tex, the number of sewing needle: 110 the number of stitch: $32\pm2/100$ mm rate of extension: 50 mm/min.
Weft The mean value of seam slippage resistance	5	number of testing specimens: 5
for crosswise direction, mm - 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, number of rubs	color change after 3 000 rubs, grade of grey scale 1 specimen	4 - 5	PN-EN ISO 12947-2.2000 The PN-EN 14465:2005+A1:2007, Annex A <i>Test conditions:</i> 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. 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 destruction 100 000	
	3 specimen	lack of completely destruction 100 000	
	4 specimen	lack of completely destruction	_
	<b>Total abrasion resistance</b> (the lowest individual result)	<b>100 000</b> lack of completely destruction	
Evaluation: according to PN-El B category: number	N 14465:2005 + A1:2007: A er of rubs: 12 000 ÷ 30 000, C		of rubs ≥ <b>35 000 rubs,</b> 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.