IW INSTYTUT WŁÓKIENNICTWA
Textile Research Institute
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UNIA DLA PRZEDSIĘBIORCZYCH
PROGRAM KONKURENCYJNOŚĆ
UNIA EUROPEJSKA

Laboratorium doposażone ze środków
Europejskiego Funduszu Rozwoju Regionalnego

Laboratorium Badań Surowców
i Wyrobów Włókienniczych
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ilac-MRA

PCA
POLSKIE CENTRUM AKREDYTACJI
BADANIA
AB 164

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

INSTYTUT WŁÓKIENNICTWA
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
92-103 Łódź, ul. Brzezińska 5/15

Certificate prepared by:
Patrycja Bąk

Person authorizing the Test Certificate:
Name and surname: Halina Królikowska
Function: Head of the Laboratory
Signature:

Kierownik
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
Instytut Włókiennictwa
mgr inż. Halina Królikowska

-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) *Test conditions:* the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;
	1 000	5	
	2 000	**4 - 5 Slight surface fuzzing**	
Evaluation according to PN-EN 14465:2005+A1:2007: **A category: grade ≥ 4 – 5**; B category: grade 4; C category: grade 3 – 4; D category: grade 3			

The end of Test Certificate

Person authorizing the Test Certificate

Kierownik
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
Instytut Włókiennictwa
mgr inż. Halina Królikowska

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

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp **The mean value of seam slippage resistance for lengthwise direction, mm** - individual results, mm	**4** 3,5; 3,5; 4; 4; 4	PN-EN ISO 13936-2:2005 *Test conditions:* tensile tester: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110 the number of stitch: 32±2/100 mm rate of extension: 50 mm/min. number of testing specimens: 5
Weft **The mean value of seam slippage resistance for crosswise direction, mm** - individual results, mm	**5** 5; 4,5; 4,5; 4,5; 4,5	
Evaluation: according to PN-EN 14465:2005 + A1:2007 requirements level: A category: ≤ 4 mm; **B category: ≤ 6 mm**; C category: ≤ 8 mm		

The end of Test Certificate

Person authorizing the Test Certificate

Laboratorium Badań Surowców i Wyrobów Włókienniczych Instytut Włókiennictwa

mgr inż. Halina Królikowska

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

Parameter		Value	Remarks
Abrasion resistance, number of rubs	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2000 + AC:2006 + PN-EN 14465:2005+A1:2007, Annex A *Test conditions:* 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 destruction of the testing specimens in accordance with that standard: at least three threads completely destroyed
	1 specimen	100 000 lack of completely destruction	
	2 specimen	100 000 lack of completely destruction	
	3 specimen	100 000 lack of completely destruction	
	4 specimen	100 000 lack of completely destruction	
	Total abrasion resistance (the lowest individual result)	**100 000** lack of completely destruction	

Evaluation:
according to PN-EN 14465:2005 + A1:2007: **A category: number of rubs ≥ 35 000 rubs,**
B category: number of rubs: 12 000 ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000

The end of Test Certificate

Person authorizing the Test Certificate

Kierownik
Laboratorium Badań Surowców
i Wyrobów Włókienniczych
Instytut Włókiennictwa
mgr inż. Halina Królikowska

TECHNICAL REPORT

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Gunnels Wood Road
Stevenage
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SG1 2NB
T: +44(0) 1438 777 700
info@fira-international.com
www.fira-international.com

Our Ref: **FL – 72572-S1**
Date: 31 January 2024
Delivery Date: 22 January 2024
Test Dates: 24 - 30 January 2024

For the attention of Umut Turgut

SAMPLE(S) FOR TEST:

One, fabric – Ref: Royal 1414

Note: The above descriptions are as supplied by the client and have not been verified by FIRA International who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:	**RESULT:**
Schedule 4 Part I (based on BS 5852: 1979 Part 1)	Pass - P0
Schedule 5 Part I (based on BS 5852: 1979 Part 1)	Pass - P1

The material was subjected to the water soak procedure and line dried as detailed in The Furniture and Furnishings (Fire) (Safety) Regulations 1988, amended 1989, 1993 and 2010.

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When a statement of conformity to a test standard is reported the test result(s) are unlikely to be the "true" result(s) due to measurement uncertainty. When the sample is tested under the criteria and conditions as defined in the method and the measured result is outside of the upper/lower acceptance limit and corrected for uncertainty at 95% probability, the risk of a false accept/reject is ≤2.5%. These results will be reported as Pass/Fail. If the test result(s) obtained under the same conditions is close to the upper/lower acceptance limit and could be either side of the accept/reject threshold these results will be reported as Fail"

FIRA International
Registered office: 3rd Floor Davidson Building, 5 Southampton Street, London, United Kingdom, WC2E 7HA.
Registered in England No: 3181481

TECHNICAL REPORT

DESCRIPTION

Enquiry No: FL - 72572-S1

Item: One, fabric – Ref: Royal 1414

Supplied by:

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 - AMENDED 1989, 1993 AND 2010 SCHEDULE 4 PART 1 MODIFICATION TO BS 5852: PART 1 THE CIGARETTE TEST

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥16 hours at 20±5°C & 50±20% rh.

Filling Material: A conventional urethane foam of nominal density 20-22kgm3 Ref: VP45, and an 85g thermally bonded polyester fibre wrap.

Test Procedure: As defined in Schedule 4 Part 1 of the above regulations.

Test Conditions: The test was conducted within the required conditions of 15-30°C & 20-70%rh.

RESULTS

Source No.	Application No.	Smoke/ Smoulder	Result - Ignition/ Non-Ignition
0	1	26min 41sec	PASS N/I
	2	24min 32sec	PASS N/I

COMMENTS

SCHEDULE 4 PART 1 MODIFICATION TO BS 5852: PART 1 THE CIGARETTE TEST	APP 1.	APP 2.
Both cigarettes were fully consumed within the stipulated 1 hour time period, however the cover and filling assembly continued to smoulder for greater than the stipulated 60min time period.	NO - PASS N/I	NO - PASS N/I
Progressive smouldering was established, the rate of smoulder was rapid, and the test was terminated before the stipulated time period.	NO - PASS N/I	NO - PASS N/I
Flames occurred though progressive smouldering, therefore the test was terminated before the stipulated 60min time period as it was deemed unsafe to continue.	NO - PASS N/I	NO - PASS N/I

CONCLUSION

This fabric sample Ref: Royal 1414, passes the test specified in Schedule 4 Part 1 of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 - Amended 1989, 1993 and 2010.

TECHNICAL REPORT

DESCRIPTION

Enquiry No: FL - 72572-S1

Item: One, fabric – Ref: Royal 1414

Supplied by:

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 - AMENDED 1989, 1993 AND 2010 SCHEDULE 5 PART 1 THE MATCH TEST (BASED ON BS 5852: 1979 PART 1)

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥16 hours at 20±5°C & 50±20% rh.

Test Procedure: As defined in Schedule 5 Part 1 of the above regulations using specified non fire-retardant polyurethane foam 20-22kg/m^3.

Test Conditions: The test was conducted within the required conditions of 15-30°C & 20-70%rh.

RESULTS

Source No.	Application No.	Application Time	Flaming Time Following Removal of Source	Smoke/ Smoulder	Result - Ignition/ Non-Ignition
1	1	20sec	00min 01sec	00min 14sec	PASS N/I
	2	20sec	00min 00sec	00min 12sec	PASS N/I

COMMENTS

SCHEDULE 5 PART 1 THE MATCH TEST BASED ON BS 5852: 1979 PART 1 THE MATCH TEST	APP 1.	APP 2.
After removal of the ignition source the cover fabric melted open to expose the underlying filling material. The cover and filling assembly immediately ignited. The rate of fire development was rapid and the test was terminated before the stipulated 120sec time period as it was unsafe to continue.	NO - PASS N/I	NO - PASS N/I
After removal of the ignition source the cover fabric melted open to expose the underlying filling material. The cover and filling assembly immediately ignited. Flames continued beyond the stipulated 120sec time period.	NO - PASS N/I	NO - PASS N/I
After removal of the ignition source the cover fabric ignited, flames spread across the surface of the cover, leaving behind an intact char. The cover continued to burn for greater than the stipulated 120sec time period.	NO - PASS N/I	NO - PASS N/I
After removal of the ignition source the cover ignited, the cover char split and the underlying filling material ignited, the cover and filling assembly continued to burn for greater than the stipulated 120sec time period.	NO - PASS N/I	NO - PASS N/I
All flames ceased within the permitted 120sec, the test assembly continued to smoulder for greater than the stipulated 15min time period.	NO - PASS N/I	NO - PASS N/I

CONCLUSION

This fabric sample Ref: Royal 1414, passes the test specified in Schedule 5 Part 1 of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 - Amended 1989, 1993 and 2010.

Approved by: Stephen Cotton
Section Head - Flammability

********** End of Report **********