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UNIA EUROPEJSKA

Laboratorium doposażone ze środków Europejskiego Funduszu Rozwoju Regionalnego

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





AB 164

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

TEST CERTIFICATE NO. BM 87.4.1.1 / 2016 / 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 SENEGAL, declared raw material composition: 100 % Olefin
- 3. Date of receiving material for testing: 04.05.2016
- 4. Date of test performance: 19.05.2016
- 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: Elżbieta Olczak

- 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.
- Test Certificate presents test results included within accreditation field of testing.
 Test results noit includet in accreditation scope, if occur, are marked with *) in the test results table, at the parameter name.
 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: 20.05.2016
 Number of Certificate copies: 2
 Test Certificate handed to:

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

- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy

Certificate prepared by: Elżbieta Piekarek-Kubicka

Person authorizing the Test Certificate:

Name and surname: Halina Królikowska

Function: Head of the Laboratory

Signature:

Laborato ienniczych

-vertemgr inż. Halina Królikowska

TEST CERTIFICATE NO. BM 87.4.1.1. / 2016 / B / A

Parameter		Value	Remarks					
	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 <i>Test conditions:</i>					
Abrasion resistance, number of rubs	1 specimen	40 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 k					
	2 specimen	30 000	magnification factor in the magnifying device: 8,					
	3 specimen	70 000	in holders used foam. Criterion of destruction of the testing specimens in accordance with that standard					
	4 specimen	50 000	at least three threads completely destroyed					
	5 specimen	40 000	10 10 10 10 10 10 10 10 10 10 10 10 10 1					
	6 specimen	40 000						
	7 specimen	35 000						
	8 specimen	70 000						
	Total abrasion resistance (the lowest individual result)	30 000						

The end of Test Certificate

B category: number of rubs: 12 000 ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000

Person authorizing the Test Certificate

mgr inż. Halina Królikowska

TEST CERTIFICATE NO. BM 87.3.2 / 2016 / G / A

Parameter		Value	Remarks					
Propensity to surface fuzzing and pilling, degree	the number of rubs	the abradant the standard woolen fabric	PN-EN ISO 12945-2:2002 load - 415 g, the number of testing specimens - 3,					
	500	5	the number of assessment persons - 3,					
	1 000	5	Assessment scale: 5 - without change,					
	2 000	4-5 slight surface fuzzing	1- strong fuzzing and intensive pilling on the whole area of sample.					
	5 000	4-5 slight surface fuzzing						

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", the upholstery fabric SENEGAL, declared raw material: 100% Olefin was classified as:

- Level A in reference to the fuzzing and pilling (Level A: \geq degree 4-5).

The end of Test Certificate	
The chu of Test Cerunicate	

Person authorizing the Test Certificate

Kierownik Techniczny Laboratonum Badań Surowców i Wyrobów Włókienniczych siedziba ul. Odańska 118 dr inż. Beata Witkowska

TEST CERTIFICATE NO. BM 87.3.1 / 2016 / G / A

Parameter	Value / degree	Remarks
Colour fastness to artificial light, degree	6 (colour: black, grey, navy blue, red, beige, black)	PN-EN ISO 105-B02:2014-11 Method 2 testing apparatus - Xenotest Alpha HE exposure conditions: standard atmosphere in accordance with point 7 of this standard: the condition of the temperate zone, Exposure Cycle A1. Assessment: comparison with blue woolen standard: degree 1 - very low color fastness to light, degree 8 - very high color fastness to light.

According to standard PN-EN 14465:2005+A1:2007 "Textiles. Upholstery fabrics. Specification and methods of test", the upholstery fabric SENEGAL, declared raw material: 100% Olefin was classified as:

- Level A in reference to the colour fastness to artificial light (Level A: \geq degree 6).

The end of Test Certificate	

Person authorizing the Test Certificate

Kierownik Techniczny Laboratorium Badań Surowców i Wyrobów Włókienniczych siedziba ul. Odańska 118 dr inż. Beata Wilkowska



92-103 ŁÓDŹ, ul. Brzezińska 5/15, tel. +48(0)42 6163101, fax.+48(0)42 6792638

Laboratory of Chemical Testing and Instrumental Analysis

Accredited by Polish Center for Accreditation for the testing specified in Scope of Accreditation No AB 077



AB 077

92-103 Lodz, Brzezińska 5/15 Street

phone no. (0-42) 61-63-130 (120, 128), fax (0-42) 61-63-131 e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

Łódź 5th May 2016

L-169/2016

TEST CERTIFICATE No BCH 162/293/2016/A

1. Name and address of the principal: "TOPTEXTIL" Sp. z o.o.

ul. Wadowicka 12, 30 - 415 Kraków

sample of furniture upholstery fabric SENEGAL - material 2. Name and description of tested sample:

composition: 100% Olefin

3. Date of receiving sample for testing: 04.05.2016

4. Date of performance of testing: 04.05. - 05.05.2016

5. Sampling: sample in a proper size, in a proper condition for research, supplied by the client

RESULTS OF THE TESTS

Property of	Results	Testing method	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007			
investigation				A	В	C	
Colour fastness to rubbing: - Dry 1) weft warp - Wet weft warp	a/ 4-5 a/ 4-5 a/ 4-5 a/ 4-5	PN-EN ISO 105- X12:2005	Acclimatization conditions: temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h; Test conditions: ambient temperature; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N; degree of moisturising of rubbing to fabric: 100%	≥ 4-5 ≥ 3-4	4	3-4 2-3	

¹⁾ Colour fastness according to "Grey scale", indicator "5" means - no change in colour, indicator "1" means - big change in colour a/ staining rubbing to cotton

1. In accordance with ISO ILAC-IAF (January 2009) Communicate available on www.pca.gov.pl, laboratory accreditation referring to ISO/IEC 17025:2005 means fulfilling the demands concerning technical laboratory competence and managing system, which are required to ensure technical reliable results of the tests.

Test results refer only to the tested material.

Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory

Total number of pages of the test certificate 1.

Test authorized by:

Wiesława Lota, M.Sc. Eng.

Number of copies: 3

The test certificate receive:

- Customer – 2 copies

IW – Laboratory of Chemical Testing and Instrumental Analysis – 1 copy

Confirmed by:

LABORATORIUM BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz



Textile Research Institute

92-103 Łódź, ul. Brzezińska 5/15, tel. +48(0)42 6163101, fax.+48(0)42 6792638



LABORATORY OF FLAMMABILITY TESTING

90-520 Łódź, ul. Gdańska 118, tel.: +48(0) 42 2534435, +48(0)42 2534436, fax.+48(0)42 2534490

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 132 / BP / 16

Test method:

PN-EN 1021-1:2014-12 Furniture. Assessment of the ignitability of upholstered furniture. Part 1: Ignition source smouldering cigarette.

Orderer:

TOPTEXTIL Sp. z o.o. ul. Wadowicka 12 30-414 Kraków



tel. 42 25 34 400, fax42 25 34 490

Subject of testing:

Upholstery composite:

- upholstery fabric for furniture named SENEGAL composition: 100% Olefin

- CM-3040 polyurethane flame-retardant foam

Testing sample with the correct size, in appropriate state for testing, supplied by the Orderer with its characteristic and without the Sampling Protocol.

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering cigarette	Neither progressive smouldering ignition nor flaming ignition occurred.

The above 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.

Tests performed by:

Kechnician Andrzej Kubacki

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIKATECHNICZNY

mgr inż Agnieszka Hulewicz 16.05.2016

Sample received on:

04.05.2016 16.05.2016

Test performed on:

NOTES:

1. The Testing results refer only to the tested sample.

Test Certificate consists of 2 pages.

Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.

The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for

The Testing Laboratory accredited by the Polish Centre for Accreditation (PCA), No AB 029.



Test Certificate No 132 / BP / 16 continued

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h humidity 35 %

Testing conditions: temperature 20 °C;

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the norm PN-EN 1021-1:2014-12.

Upholstery composite characteristic:

Upholstery composite of:

- upholstery material named SENEGAL, composition: 100% Olefin

- CM-3040 polyurethane flame-retardant foam

			Cigarette			Remarks				
Criteria		1	2	3	Teman					
	Unsafe escalating combustion	NO	NO	-		Max	ximum	cigare	tte	
Test assembly consumed		NO	NO	-	smouldering time:					
Smouldering criteria	Smoulders to extremities	NO	NO	-		18 minutes 05 seconds				
	Smoulders through thickness	NO	NO	-	To minutes so say					
	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery			tery		
	In final examination, presence of active	NO	NO		composite destruction:					
	smouldering				horiz	ontal [n	nm]		ical [m	
Flaming	O of flames	NO	NO	-	length	width	depth	length	width 25	depth 12
criteria	Occurrence of flames				94	18	15	92	23	12

Result of testing: Neither progressive smouldering ignition nor flaming ignition occurred.

END OF THE TEST CERTIFICATE