TEST CERTIFICATE NO. BM 87.1.1.2 / 2016 / B / A

arameter	Value	Remarks
color change after 3 000 rubs, grade of grey scale	4	PN-EN ISO 12947-2:2000 + AC:2006 + PN-EN 14465:2005+A1:2007, Annex A <i>Test conditions:</i>
1 specimen	90 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa.
2 specimen	100 000 no destruction	magnification factor in the magnifying device: 8,
	100 000 no destruction	in holders used foam. Criterion of destruction of the testing
	100 000 no destruction	specimens in accordance with that standard: at least three threads completely destroyed
Total abrasion resistance (the lowest individual result)	90 000	Note: during the test the fabric surface was fuzzing and formed pills. Pills were felled.
	color change after 3 000 rubs, grade of grey scale 1 specimen 2 specimen 3 specimen 4 specimen Total abrasion resistance (the lowest individual	color change after 3 000 rubs, grade of grey scale 1 specimen

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

TEST CERTIFICATE NO. BM 87.1.1.3 / 2016 / B / A

Par	Parameter Value		Remarks			
Propensity to surface fuzzing and pilling,	the number of rubs 500 1 000 2 000	4 - 5 4 - 5 4 - 5 slight surface fuzzing	PN-EN ISO 12945-2:2002 (modified Martindale method) Test conditions: the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;			
Evaluation accordin C category: grade 3	g to_PN-EN 14465:2005- -4; D category: gra		grade ≥4-5; B category: grade 4;			

The end of Test Certificate	

Person authorizing the Test Certificate

TEST CERTIFICATE NO. BM 87.1.1.1 / 2016 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm:		PN-EN ISO 13936-2:2005
Warp		Test conditions:
The mean value of seam slippage resistance	2	tensile tester: Hounsfield H50 KM,
for lengthwise direction, mm		testing force: 180 N,
- individual results, mm	2; 2,5; 2; 1,5; 2	100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110,
Weft		the number of stitch: 32±2/100 mm,
The mean value of seam slippage resistance for crosswise direction, mm	2	rate of extension: 50 mm/min., number of test specimens: 5
- individual results, mm	2; 2,5; 2; 2,5; 2	
Evaluation:		
according to PN-EN 14465:2005 + A1:2007		
requirements level: A category: ≤ 4 mm; B cat		ategory: ≤8 mm

The end of Test Certificate	
 The end of Test Certificate	

Person authorizing the Test Certificate



AB 077

Łódź 3rd March 2016

Laboratory of Chemical Testing and Instrumental Analysis

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

L - 77/2016

TEST CERTIFICATE No BCH 73/112/2016/A

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

ul. Wadowicka 12, 30-415 Kraków

Name and description of tested sample: sample of furniture upholstery fabric MOSTAR - material 2. composition: 100% Polyester

3. Date of receiving sample for testing:

25.02.2016

4. Date of performance of testing:

25.02. - 03.03.2016

5. Sampling:

sample in a proper size, in a proper condition for research, supplied

by the client

RESULTS OF THE TESTS

Property of investigation	F	Results	Testing method	Test conditions	categorie	of requirents according 5:2005 + A	g to PN-EN
					A	В	C
Colour fastness to rubbing: Dry 1) longitudinal direction cross direction Wet longitudinal direction cross direction	a/ a/ a/ a/	4-5 4-5 4-5 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	≥ 4-5	4	3-4

¹⁾ Colour fastness according to "Grey scale", indicator "5" means - no change in colour, indicator "1" means - big change in colour

Remarks:

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: 4

The test certificate receive:

- Customer 2 copies
- IW Laboratory of Chemical Testing and Instrumental Analysis 1 copy
- IW Laboratory of Testing Textile Raw Materials and Fabrics 1 copy

Confirmed by:

LABORATORIUM BABAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy f estrzeniewicz



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

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





AB 077

Łódź 7th March 2016

L - 77/2015

TEST CERTIFICATE No BCH 73/112/2016/A/1

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

ul. Wadowicka 12, 30-415 Kraków

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

composition: 100% Polyester

3. Date of receiving sample for testing:

25.02.2016

4. Date of performance of testing:

5. Sampling:

25.02. - 07.03.2016

sample i a proper size, in a proper condition for research, supplied

by the client

RESULTS OF THE TESTS

Property of investigation	Results	Testing method	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007				
				A	В	C		
			Device: Xenotest Alpha +					
Colour fastness to: - artificial light 1) 1) Colour fastness according to the colour fastness to:	a/ 2-3	PN-EN ISO 105- B02:2014-11 Method 2	Light conditions: - wavelenght: 300-400nm - filters: 7IR - BST temperature = 47 ± 3 °C - chamber temperature: 45 ± 3°C - RH = 40% Estimation: Multilight chamber, light D65	≥ 6	≥ 5	≥ 4		

¹⁾ Colour fastness according to "Blue scale", indicator "8" means - no change in colour, indicator "1" means - big change in colour

Remarks:

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.

2. Test results refer only to the tested material.

3. 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.

W. Lote

Number of copies: 4

The test certificate receive:

- Customer - 2 copies

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

- IW - Laboratory of Testing Textile Raw Materials and Fabrics - 1 copy

onfirmed by:
ABURATORIUM BADAN CHEMICZNYCH
I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy Plastkzeniewicz



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 52/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

INSTYTUT WŁÓKIENNICTWA ul. Gdańska 118, 90-520 Łódź tel. 42 25 34 400, fax42 25 34 490

Subject of testing:

Upholstery composite:

- upholstery fabric for furniture named MOSTAR composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

Testing sample of fabric and its characteristic supplied by the Orderer.

Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering eigarette	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:

technician Andrzej Kubacki

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr inż, Malgorzata Szejna

08.03.2016

Sample received on:

Test performed on:

25.02.2016 07.03.2016

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

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 52/BP/16 continued

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) % Testing conditions: temperature 22 °C; humidity 32 %

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:

 upholstery fabric for furniture named MOSTAR composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

	Criteria	(Cigarett	е	D 1					
	CITICITA	1 2 3			Remarks					
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 16 minutes 05 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	_						
	Smoulders through thickness	NO	NO	-						
criteria	Smoulders more than 1 hour	NO	NO	_						
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:					
Flaming					horizont	al [m	m]	ver	tical [m	m]
criteria	Occurrence of flames	NO	NO	-	-	_	depth	length	width	depth
					67 1	5	17	67	20	10

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



END OF THE TEST CERTIFICATE



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 52 / 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

INSTYTUT WILL KIENNICTWA ul. Gdańsky 118, 90-520 Łódź tel. 42 25 34 400, fax42 25 34 490

Subject of testing:

Upholstery composite:

- upholstery fabric for furniture named MOSTAR composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

Testing sample of fabric and its characteristic supplied by the Orderer.

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:

technician Andrzej Kubacki

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr inż. Małgorzata Szejna

08.03 2016

Sample received on:

25.02.2016

Test performed on: 07.03.2016

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 testing.



Test Certificate No 52 / BP / 16 continued

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) % Testing conditions: temperature 22 °C; humidity 32 %

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:

- upholstery fabric for furniture named MOSTAR composition: 100% polyester

- CM-3040 polyurethane flame-retardant foam

	Criteria	(Cigarett	е	Remarks					
	Criteria	1	2	3			Kell	iaiks		
	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time:			ette		
	Test assembly consumed	NO	NO	-						
Con and domina	Smoulders to extremities	NO	NO	-						
Smouldering criteria	Smoulders through thickness	NO	NO	-	16 minutes 05 seconds					
Cilicila	Smoulders more than 1 hour	NO	NO	-						
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:					
Flaming						contal [n			tical [m	1
criteria	Occurrence of flames	NO	NO	-	length 67	width 15	depth 17	length 67	width 20	depth 10

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



END OF THE TEST CERTIFICATE