TEST CERTIFICATE NO. BM 2.20.1.3 / 2015 / B / A

P	arameter	Value	Remarks	
	color change after 3 000 rubs, grade of grey scale	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	50 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kg	
	2 specimen	110 000	magnification factor in the magnifying device: 8,	
	3 specimen	110 000	in holders used foam. Criterion of destruction of the testing	
	4 specimen	50 000	at least three threads completely destroyed	
	Total abrasion resistance (the lowest individual result)	50 000	Note: during the test, on the fabric surface formed pills, which were felled	

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 and of Took	0	
The end of Test	Certificate	

Person authorizing the Test Certificate

Zastępca Kierownika Laboratorium Badan Surowców I Wyrobów Wildlienniczych Instytut Wieldennictwa

mgr inż. Jerzy Andrysiak

TEST CERTIFICATE NO. BM 2.20.1.2 / 2015 / B / A

Parameter		Value	Remarks	
Propensity to surface fuzzing	the number of rubs 500	5	PN-EN ISO 12945-2:2002 (modified Martindale method)	
and pilling,	1 000	5	Test conditions:	
	2 000	5 no change	the abradant: the standard woolen fabric; mass of weight: 415 ± 2 g;	
Evaluation accordin C category: grade 3	g to_PN-EN 14465:2005+2 -4; D category: grad	A1:2007: A category	y: grade ≥4-5; B category: grade 4	

The end of Test Certificate

Person authorizing the Test Certificate

Zas epca Kierownika Laboratolium Badań Surowców i Wyrobów Wiókienniczych Instytut Wiókiennictwa mgr inż. Jerzy Andrysiak

TEST CERTIFICATE NO. BM 2.20.1.1 / 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 Weft The mean value of seam slippage resistance for crosswise direction, mm individual results, mm	4 4; 4; 4,5; 3,5; 3,5 6	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
Evaluation: according to PN-EN 14465:2005 + A1:2007	6; 6,5; 7; 6; 6	

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

Zasi erica Kierownika Laboratoriym Badan Surowców i Wyrobów Włókienniczych Instyluj Włókiennictwa mgr inzwerzy Andrysiak



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





AB 077

Łódź 12th January 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 - 719/2015

TEST CERTIFICATE No BCH 687/1677/2015/A/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 KANKAN

3. Date of receiving sample for testing:

18.12.2015

4. Date of performance of testing:

18.12. - 11.01.2016

5. Sampling:

by Client personally

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		
- artificial light ¹⁾	a/ 7	PN-EN ISO 105- B02:2014-11 Method 2	Device: Xenotest Alpha + <u>Light conditions:</u> - wavelenght: 300-400nm - filters: 7IR - BST temperature = 47 ± 3 °C - chamber temperature: 45 ± 3 °C - RH = 40% Estimation: Multilight chamber, light D65	≥6	≥ 5	<u>C</u> ≥ 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. 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

Test authorized by:

Zdzisława Mrozińska, 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 GHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWWIK

mgr inż. Jerzy Piestrzeniewicz



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





AB 077

Łódź 12th January 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 - 719/2015

TEST CERTIFICATE No BCH 687/1677/2015/A

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 KANKAN

3. Date of receiving sample for testing:

18.12.2015

4. Date of performance of testing:

18.12. - 11.01.2016

5. Sampling:

by Client personally

RESULTS OF THE TESTS

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

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

Remarks:

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:

Zdzisława Mrozińska, 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 BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK

mgr inż. Jerzy Piestrzeniewicz

IW Laboratory of Chemical Testing and Instrumental Analysis- BCH

Enclose No 3 Procedure No 15 KP

Edition 5 Date 01.01.2015 page. 1/1



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 6/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

Subject of testing:

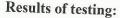
Upholstery composite:

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

- CM-3040 polyurethane flame-retardant foam Testing sample of fabric and its characteristic supplied by the Orderer.

INSTYTUT WI SKIENNICTWA

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



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.

technician Andrzej Kubacki

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr inż. Małgorzata Szejna 11.01.2016

Sample received on: Test performed on:

18.12.2015 08.01.2016

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



Test Certificate No 6/BP/16 continued

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) % Testing conditions: temperature 23 °C; humidity 31 %

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 KANKAN composition: 100% Olefin

- CM-3040 polyurethane flame-retardant foam

Criteria		Cigarette				
		1	2	3	Remarks	
	Unsafe escalating combustion	NO	NO			
	Test assembly consumed	NO	NO	_	Maximum cigarette	
criteria	Smoulders to extremities	NO	NO		smouldering time:	
	Smoulders through thickness	NO	NO	_	18 minutes 16 seconds	
	Smoulders more than 1 hour	NO	NO			
	In final examination, presence of active smouldering	NO	NO	-	Maximum upholstery composite destruction:	
Flaming criteria	Occurrence of flames	NO	NO		horizontal [mm] vertical [mm]	
			140	-	length width depth length width depth 90 15 12 85 17 2	

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



END OF THE TEST CERTIFICATE