IW INSTYTUT WŁÓKIENNICTWA
Textile Research Institute
5/15 Brzezinska Str., 92-103 LODZ, Poland, www.iw.lodz.pl

ilac-MRA

PCA
POLSKIE CENTRUM AKREDYTACJI
BADANIA
AB 077

Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str.
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e-mail: jpiestrzeniewicz@iw.lodz.pl, labchem@iw.lodz.pl

Łódź 20th of January 2017

L – 8/2017

ŚWIADECTWO Z BADAŃ nr BCH 8/26/2017/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 MOON – declared material composition: 56% Polyester, 44% Polypropylene
3. **Date of receiving sample for testing:** 09.01.2017
4. **Date of performance of testing:** 19.01. – 20.01.2017
5. **Sampling:** sample in 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	B	C
Colour fastness to rubbing:		PN-EN ISO 105-X12:2005	Acclimatization conditions: temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h;			
- Dry [1)]			Test conditions : ambient temperature; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N; degree of moisturising of rubbing to fabric: 100%			
weft	a/ 4			≥ 4-5	4	3-4
warp	a/ 4					
- Wet						
weft	a/ 3-4			≥ 3-4	3	2-3
warp	a/ 3-4					

[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

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.
4. Total number of pages of the test certificate 1.

Test authorized by:
Zdzisława Mrozińska, M.Sc. Eng.

Confirmed by:
LABORATORIUM BADAŃ CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH
KIEROWNIK TECHNICZNY
ds. Badań Chemicznych i Odporności Wybarwień
mgr inż. Katarzyna Chylewska

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

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Łódź 20th of January 2017

L – 8/2017

ŚWIADECTWO Z BADAŃ nr BCH 8/26/2017/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 MOON – declared material composition: 56% Polyester, 44% Polypropylene
3. **Date of receiving sample for testing:** 09.01.2017
4. **Date of performance of testing:** 19.01. – 20.01.2017
5. **Sampling:** sample in 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	B	C
Colour fastness to: - *artificial light* [2)]	a/ 3-4	PN-EN ISO 105-B02:2014-11 Method 2	Device: Xenotest Alpha + Light conditions: - wavelenght: 380-750 nm - filters: 7IR - BST temperature = 47 ± 3 °C - chamber temperature: 45 ± 3°C - RH = 40% Estimation: Multilight chamber, light D65	≥ 6	≥ 5	≥ 4

[2)] Colour fastness according to "Blue scale" , indicator "8" means – no change in colour, indicator "1" means – big change in colour
a/ change of 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.
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Test authorized by:
Zdzisława Mrozińska, M.Sc. Eng.

Confirmed by:
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ds. Badań Chemicznych i Odporności Wybarwień
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TEST CERTIFICATE NO. BM 4.1.1.3 / 2017 / 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: chenille cover is completely wiped
	1 specimen	35 000	
	2 specimen	35 000	
	3 specimen	35 000	
	4 specimen	35 000	
	Total abrasion resistance (the lowest individual result)	**35 000**	

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
Name and surname: Patrycja Bąk MSc Eng
Function: Deputy Technical Head
of Laboratory 5/15 Brzezińska Street
Signature

TEST CERTIFICATE NO. BM 4.1.1.2 / 2017 / 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
Name and surname: Patrycja Bąk MSc Eng
Function: Deputy Technical Head of Laboratory 5/15 Brzezińska Street
Signature

TEST CERTIFICATE NO. BM 4.1.1.1 / 2017 / B / A

Parameter	Value	Remarks
Seam slippage resistance, mm: Warp **The mean value of seam slippage resistance for warp direction, mm** - individual results, mm Weft **The mean value of seam slippage resistance for weft direction, mm** - individual results, mm	**3** 3,5; 4; 3; 3; 3 **4** 4; 4,5; 3,5; 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 test specimens: 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
Name and surname: Patrycja Bąk MSc Eng
Function: Deputy Technical Head
of Laboratory 5/15 Brzezińska Street
Signature

IW INSTYTUT WŁÓKIENNICTWA
Textile Research Institute
5/15 Brzezinska Str., 92-103 LODZ, Poland, www.iw.lodz.pl

Laboratory of Flammability Testing

90-520 Lodz, 118 Gdanska Str.
phone 48 42 2534435 (436), fax 48 42 2534490
e-mail: mszejna@iw.lodz.pl

PCA Polskie Centrum Akredytacji BADANIA
AB 029

TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 9 / BP / 17

Test method:

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

INSTYTUT WŁÓKIENNICTWA
LABORATORIUM
BADAŃ PALNOŚCI WYROBÓW
ul. Gdańska 118, 90-520 Łódź

Orderer:

TOPTEXTIL Sp. z o.o.
ul. Wadowicka 12
30-415 Kraków

Subject of testing:

Upholstery composite:
- upholstery fabric for furniture named MOON
  composition: 56% polyester, 44% polypropylene
- 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:
Andrzej Kubacki, technician

Test Certificate authorized by:
Laboratorium Badań Palności Wyrobów
KIEROWNIK
mgr inż. Małgorzata Szejna
18.01.2017

Sample received on: 05.01.2017
Test performed on: 16.01.2017

NOTES:
1. The Testing results refer only to the tested sample.
2. Test Certificate consists of 2 pages.
3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.

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