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Lodz Institute of Technology

Laboratory of Textile Metrology and Electrostatics
Łukasiewicz Research Network – Lodz Institute of Technology,
90-570 Lodz, 19/27 Marii Skłodowskiej-Curie Str.,
Laboratory: 92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142
Laboratory: 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419
e-mail: *beata.witkowska@lit.lukasiewicz.gov.pl; jerzy.andrysiak@lit.lukasiewicz.gov.pl*

TEST REPORT NO. BL-ME 693.3 / 2024 / B

1. **Test ordered by:**[X] „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material:**[X] the sample: **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-10-08
4. **Date of test performance:** 2024-10-30
5. **Samples taken by:**[X] limited 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

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3. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15(B).
4. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2024-11-04
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report
LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 693.3 / 2024 / B

Parameter	Result	Test method
Resistance to drawing out the threads for longitudinal direction, degree	4 – 5	PN-79/P-04664 climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, device for testing resistance to drawing out the threads: Shirley ICI Mace snag tester, England, number of the template used for sewing: 2, number of the roller revolutions: 200, number of tested specimens: 2 for each direction. Assessment according to photographic standard: **degree 5:** very good resistance to drawing out the threads (without puffs), **degree 4:** good resistance to drawing out the threads, **degree 3:** sufficient resistance to drawing out the threads, **degree 2:** insufficient resistance to drawing out the threads, **degree 1:** very poor resistance to drawing out the threads.
Resistance to drawing out the threads for cross direction, degree	4	

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ
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Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report

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TEST REPORT NO. BL-ME 224.4 / 2024 / B / A

1. **Test ordered by:** [x] „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: [x] **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-06
5. **Samples taken by:** [x] correct sample size in appropriate state for testing, taken by the Client and delivered with/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

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4. Test results not included in accreditation scope, if occur, are marked with in the test results table, at the parameter name.*
5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limits given in specification. The conformity statemen's rules given by Client could be allowed.

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Test Report date: 2024-05-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

Parameter		Value	Test method
Propensity to surface fuzzing, pilling or matting, grade			PN-EN ISO 12945-2:2021-04 PN-EN ISO 12945-4:2021-04 (modified Martindale method) climate for sample conditioning and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, the abradant: the standard woolen fabric; number of test specimens: 3, number of evaluators: 3, mass of weight: (415 ± 2) g.
- pilling	the number of rubs		
	125	5	
	500	5	
	1 000	5	
	2 000	5	
	5 000	5	
	7 000	**5** **no change**	
- fuzzing	the number of rubs		
	125	5	
	500	5	
	1 000	5	
	2 000	5	
	5 000	5	
	7 000	**5** **no change**	
- matting	the number of rubs		
	125	5	
	500	5	
	1 000	5	
	2 000	5	
	5 000	5	
	7 000	**5** **no change**	
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			

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
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The end of Test Report

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TEST REPORT NO. BL-ME 224.5 / 2024 / B

1. **Test ordered by:**[X] „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material:**[X] the sample: **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-10
5. **Samples taken by:**[X] limited 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

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5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test results with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2024-05-14
Number of Test Report 's copies: 2
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1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report

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LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 224.5 / 2024 / B

Parameter	Value	Remarks
Seam slippage resistance, mm: Longitudinal direction **The mean value of resistance to perforation in the seam for longitudinal direction, mm** - individual results, mm Cross direction **The mean value of resistance to perforation in the seam for cross direction, mm** - individual results, mm	**3 ± 0** 3; 2,5; 3; 2,5; 3 **3 ± 0** 2,5; 3; 3; 3; 2,5	PN-EN ISO 13936-2:2005 climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, RH: 65% ± 4%, 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		

Person authorizing the Test Report

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The end of Test Report

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TEST REPORT NO. BL-ME 224.6 / 2024 / B

1. **Test ordered by:**[X] „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**:[X] the sample: **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-08
5. **Samples taken by:**[X] limited 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

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3. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15(B).
4. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in cocument ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
5. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test results with requirements/specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statement's rules given by Client could be allowed.

Test Report date: 2024-05-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 224.6 / 2024 / B

Parameter	Value	Remarks
The mean of bursting strength, kPa	**1230 ± 50**	PN-EN ISO 13938-1:2020-05 (hydraulic method) sample conditioned according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H: 65% ± 4%, burst device: PSI-BURST, test area: 50 cm^2, time at burst: (20±5) s, number of test specimens: 5.
The mean of height at burst, mm	**25 ± 1**	
Evaluation according to PN-EN 14465:2005 + A1:2007: requirements level: **A category: ≥ 600 kPa;** B category: ≥ 400 kPa; C category: ≥ 200 kPa		

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

The end of Test Report

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TEST REPORT NO. BL-ME 224.1 / 2024 / B / A

1. **Test ordered by:** X „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: X **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-07
5. **Samples taken by:** X correct sample size in appropriate state for testing, taken by the Client and delivered with/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

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4. Test results not included in accreditation scope, if occur, are marked with in the test results table, at the parameter name.*
5. Test Report consists of test results carried out in location 90-520 Łódź, ul. Gdańska 118 (G) / 92-103 Łódź, ul. Brzezińska 5/15 (B).
6. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document ILAC-G17:01/2021. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.
7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limits given in specification. The conformity statemen's rules given by Client could be allowed.

Sieć Badawcza Łukasiewicz Łódzki Instytut Technologiczny Laboratorium Metrologii Włókienniczej i Elektrostatyki 92-103 Łódź, ul. Brzezińska 5/15 tel. 42 6[illegible], fax 42 61 63 131

Test Report date: 2024-05-14
Number of Test Report 's copies: 2
Test Report handed to:
1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
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Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA

mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 224.1 / 2024 / B / A

Parameter		Value	Test method
The mean of maximum force, N	longitudinal direction	**1800 ± 0**	PN-EN ISO 13934-1:2013-07 climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, tensile machine: Hounsfield H5KS, rate of extension: 100 mm/min., pretension: 5N, distance between clamps: 200 mm, number of test specimens: 5 in each direction.
	cross direction	**1700 ± 0**	
The mean of elongation at maximum force, %	longitudinal direction	**43,5 ± 2,0**	
	cross direction	**20,5 ± 1,5**	
Evaluation: according to PN-EN 14465:2005 + A1:2007: **A category: > 600 N,** B category: ≥ 400 N, C category: ≥ 350 N, D category: ≥ 250 N			

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
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The end of Test Report

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Laboratory of Textile Metrology and Electrostatics
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AB 164

TEST REPORT NO. BL-ME 224.3 / 2024 / B / A

1. **Test ordered by:** x „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: x **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-09÷10
5. **Samples taken by:** x correct sample size in appropriate state for testing, taken by the Client and delivered with/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

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7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limit given in specification. The conformity statemen's rules given by Client could be allowed.

Sieć Badawcza Łukasiewicz
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Laboratorium Metrologii Włókienniczej i Elektrostatyki
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Test Report date: 2024-05-14
Number of Test Report 's copies: 2
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1) „TOPTEXTIL" Sp. z o.o., Wadowice - 1 copy,
2) Laboratory of Textile Metrology and Electrostatics (location: 5/15 Brzezińska str.) - 1 copy.

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:
LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 224.3 / 2024 / 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 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, the abradant: the standard woolen fabric, the nominal pressure used in the test: 12 kPa, magnification factor in the magnifying device: 8. Criterion of destruction of the testing specimens in accordance with that standard: shenille fabric – three threads are completely broken or when chenille pile is fully worn off (whatever comes first).
	1 specimen	20 000	
	2 specimen	20 000	
	3 specimen	20 000	
	4 specimen	20 000	
	Total abrasion resistance (the lowest individual result)	**20 000**	
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			

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
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The end of Test Report

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AB 164

TEST REPORT NO. BL-ME 224.2 / 2024 / B / A

1. **Test ordered by:** X „TOPTEXTIL" Sp. z o.o., 29 Mickiewicza Street, 34-100 Wadowice
2. **Name and description of tested material**: the sample: X **The upholstery product CLARA,** declared raw material composition: 100% Polyester.
3. **Date of receiving material for testing:** 2024-04-08
4. **Date of test performance:** 2024-05-09
5. **Samples taken by:** X correct sample size in appropriate state for testing, taken by the Client and delivered with/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

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7. Laboratory uses the requirements of ILAC-G8:09/2019. The conformity statement of test result with requirements specification takes place, when the test results together with expanded uncertainty does not exceed the tolerance limits given in specification. The conformity statemen's rules given by Client could be allowed.

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Sieć Badawcza Łukasiewicz
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tel. 42 61 63 [illegible] fax 42 [illegible] 63 131

Test Report prepared by:
Patrycja Bąk

Person authorizing the Test Report:
LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

TEST REPORT NO. BL-ME 224.2 / 2024 / B / A

Parameter		Value	Test method
Overall value avarage tear force, N	warp	**94 ± 8**	PN-EN ISO 13937-3:2002 (single tear method) climate for conditioning sample and testing according to PN-EN ISO 139:2006 + A1:2012, temp. 20° C ± 2 °C, R.H. 65% ± 4%, tensile machine: Zwick 1120, rate of extension: 100 mm/min., distance between clamps: 100 mm, method of calculating average values: electronic; number of test specimens: 5 in each direction.
	weft	**87 ± 5**	
Evaluation: according to PN-EN 14465:2005 + A1:2007: **A category: ≥ 40 N,** B category: ≥ 30 N, C category: ≥ 25 N, D category: ≥ 20 N, E category: ≥ 15 N			

Person authorizing the Test Report

LABORATORIUM METROLOGII WŁÓKIENNICZEJ I ELEKTROSTATYKI
Z-CA KIEROWNIKA
mgr inż. Jerzy Andrysiak

The end of Test Report

Łukasiewicz
Lodz Institute of Technology

Laboratory of Flammability Testing
Lukasiewicz Research Network – Lodz Institute of Technology,
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Laboratory: 90-520 Lodz, 118 Gdanska Str., phone +48 42 2534435 (436),
e-mail: krzysztof.kostanek@lit.lukasiewicz.gov.pl

AB 029

TEST CERTIFICATE No 96 / BL - PW / 24

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. Mickiewicza 29
34-100 Wadowice

Subject of testing*:

Upholstery composite:
- upholstery fabric named CLARA; composition: 100% Polyester,
- flame-retardant foam RF 30120

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:

Paulina Bartkowicz MSc.

Test Certificate authorized by

LABORATORIUM BADAŃ PALNOŚCI WYROBÓW
KIEROWNIK
dr inż. Krzysztof Kostanek

Sample received on: 08.04.2024
Test performed on: 10.04.2024
Test Certificate issued on: 10.04.2024

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.
5. *Data provided by the Customer.

DETAILED TESTING RESULTS

Climate conditions: temperature (23 ± 2) °C; humidity (50 ± 5) %; time 24 h
Testing conditions: temperature 22 °C; humidity 47 %

Preparation of test samples:

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

Upholstery composite characteristic:

upholstery composite:
- upholstery fabric named CLARA; composition: 100% Polyester,
- flame-retardant foam RF 30120.

Test method according to PN-EN 1021-1:2014-12

Criteria		Cigarette			Remarks					
		1	2	3						
Smouldering criteria	Unsafe escalating combustion	NO	NO	-	Maximum cigarette smouldering time: 18 minutes 02 seconds					
	Test assembly consumed	NO	NO	-						
	Smoulders to extremities	NO	NO	-						
	Smoulders through thickness	NO	NO	-						
	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery composite destruction:					
	In final examination, presence of active smouldering	NO	NO	-						
Flaming criteria	Occurrence of flames	NO	NO	-	horizontal [mm]			vertical [mm]		
					length	width	depth	length	width	depth
					70	14	8	68	12	5

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

END OF THE TEST CERTIFICATE

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gabriela.palucka@lit.lukasiewicz.gov.pl

AB 077

Łódź, 11th May 2024

L-186/2024

TEST CERTIFICATE No BL-AI 182/400/2024/A/I

1. **Name and address of the principal** [x]: „TOPTEXTIL" Sp. z o.o.
   ul. Mickiewicza 29, 34-100 Wadowice
2. **Subject of study** [x]: Sample – furniture upholstery fabric CLARA, raw material composition 100 % Polyester
3. **Date of receiving sample for testing:** 08.04.2024
4. **Date of the test conducting:** 10.04 - 24.04.2024
5. **Sampling:** Sample in a proper size, in a proper condition for tests, supplied by the customer.

RESULTS OF THE TESTS

Tested feature	Result of the test [degree]	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
				A	B	C
Colour fastness to: - *artificial light* [1]	a/ 6	PN-EN ISO 105-B02:2014-11 Method 2	- device: Xenotest Alpha + - light conditions: A1 - radiation measurement in the range 300-400 nm - sample rotation was not applied	≥ 6	≥ 5	≥ 4

[1] Colour fastness according to "Blue scale", indicator "8" means – no change in colour, indicator "1" means – big change in colour.
a/ change in colour of the sample

Remarks:
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.
3. [x] Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Test conducted by:
Małgorzata Dałek MSc

Authorized by:
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Lodz Institute of Technology – BL-AI - 1 copy

- THE END -

Łukasiewicz
Lodz Institute of Technology

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gabriela.palucka@lit.lukasiewicz.gov.pl

AB 077

Łódź, 11th May 2024

L-186/2024

TEST CERTIFICATE No BL-AI 182/400/2024/A

1. **Name and address of the principal** [x]: „TOPTEXTIL" Sp. z o.o. ul. Mickiewicza 29, 34-100 Wadowice
2. **Subject of study** [x]: Sample – furniture upholstery fabric CLARA, raw material composition 100 % Polyester
3. **Date of receiving sample for testing:** 08.04.2024
4. **Date of the test conducting:** 26.04.2024
5. **Sampling:** Sample in a proper size, in a proper condition for tests, supplied by the customer.

RESULTS OF THE TESTS

Tested feature	Result of the test [degree]	Reference document	Test conditions	Level of requirements for categories according to PN-EN 14465:2005 + A1:2007 A	B	C
Colour fastness to:		PN-EN ISO 105-X12:2016-08	- time of acclimatisation: 4 h - temperature of the test: 21.3 °C - humidity of the test: 33.9 % - rubbing pick: Ø 16 ± 0.1 mm - push: 9 ± 0.2 N - degree of moisturising of the rubbing fabric: 100 %			
- *dry rubbing:* [1]						
warp	a/ 4-5			≥ 4-5	≥ 4	≥ 3-4
weft	a/ 4-5					
- *wet rubbing:* [1]						
warp	a/ 4-5			≥ 3-4	≥ 3	≥ 2-3
weft	a/ 4-5					

[1] Colour fastness according to "Grey scale", indicator "5" means – no change in colour in cotton rubbing fabric, indicator "1" means – big change in colour.
a/ staining - the cotton rubbing fabric

Remarks:
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.
3. [x] Data provided by the principal/customer.
4. Total number of pages of the test certificate: 1.

Test conducted by:
Małgorzata Dałek MSc

Authorized by:
[illegible] INSTRUMENTALNYCH
[illegible] OBSZARU/KIEROWNIK
mgr inż. Agnieszka Lisiak-Kucińska

Number of copies of the test certificate: 3
The test certificate receive:
- Customer - 2 copies
- The ŁUKASIEWICZ Research Network – Lodz Institute of Technology – BL-AI - 1 copy

- THE END -