

Investigation report

SAHCO GmbH

Fr. Sarah Kemmerer Kreuzburger Str 17-19

90471 Nürnberg

DELCOTEX

Delius Techtex GmbH & Co. KG

Vilsendorfer Str. 50 33739 Bielefeld Germany

Homepage: www.textillabor.eu

Contact:

Detlef von Seyfried Laboratory/ Lab Manager

Division: Phone:

+49 (0) 52 06 / 91 07 - 57

Fax:

+49 (0) 52 06 / 91 07 - 34

Date:

26.11.2018

Investigation report No. 18-E-624

order description:

Abrasion resistance DIN EN ISO 12947-2 (2017-03)

according to Martindale method (specimen breakdown); Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method ISO 12945 (2000-11) in accordance to DIN EN 14465 (2006-09); Seam slippage

resistance DIN EN ISO 13936-2 (2004-07) method B

sample:

600167 Proof 2766

sampling:

by orderer

orderer:

see address

date of order:

21.09.2018

date of delivery:

22.10.2018

date of testing:

21.11.2018

number of pages:

4

Remark:

The results are valid only for the tested object. The accreditation applies for the methods listed in the annex to the certificate D-PL-17323-01-00. Accredited test methods are underlined. The valuations and Interpretations in the investigation report are not subject to accreditation. Tests conducted through co-operation partners are marked with °. The content of this investigation report will not be passed to third persons without written approval of the orderer. The partial publication of the test report, as well as the usage for commercial process, is only allowed with a permission of the DELCOTEX Delius Techtex GmbH & Co. KG.

Remnants of test material will be destroyed after 3 months. Previously stated specifications / data sheets / certificates are only characters and no warranties. Also no warranty in case of durability will be overtaken. Finally our general delivery and payment conditions are valid (please see www.textillabor.eu).





page 2 of 4

Instructions for performing

1. Method:

Abrasion resistance DIN EN ISO 12947-2 (2017-03)

according to Martindale method (specimen breakdown) in accordance

to DIN EN 14465 (2006-09)

2. Measuring conditions

tester:

Martindale - abrasion tester

abrasive:

wool fabric

nominal pressure:

12 15

nominal pressure

12 kPa

scrubbing:

795 +/- 7 g

room temperature:

20 +/- 2 °C 65 +/- 4 %

humidity:

05

number of observers:

O man amidianti

observation technology:

8-magnification

Test results

Article:

600167 Proof 2766

weight:

452 g/m²

sample condition:

new

foam:

yes

pretreatment:

no

	Number of Cycles	Mark
	Change of colour after 3000 cycles	3-4
Sample 1	80.000	
Sample 2	80.000	
Sample 3	80.000	
Sample 4	80.000	
result	80.000	

^{*} Final grading refers to change of colour under use of greyscale according to ISO 105-A02. Mark 10 strong change of colour, Mark 5 = no change of colour.

Remark:

According to DIN EN 14465 (2006-09) the article, in reference to abrasion resistance in furnishing fabrics, the article is ranked within **category A.**

on customer request, broken off after 80.000 cycles.



page 3 of 4

Instructions for performing

3. Method: Determination of fabric propensity to surface fuzzing and to pilling -Part 2:Modified Martindale method ISO 12945 (2000-11) in accordance to DIN EN 14465 (2006-09)

4. Measuring conditions

tester:

Martindale-tester

abrasive:

wool-abrasive

pressure weight:

415 +/- 1 g

Test temperature:

20 +/- 2 °C

65 +/- 4 %

Test humidity: Number of specimen:

Number of observers:

3 2

pretreatment:

No

Test results

Article:

600167 Proof 2766

Number of cycles	Mark*
500	4-5
1.000	4-5
2.000	4
5.000	4

Remark: According to to DIN EN 14465 (2006-09) in reference to pilling tendencies of furnishing fabrics, the article is ranked within category B.



Instructions for performing

- 5. Method: Seam slippage resistance DIN EN ISO 13936-2 (2004-07) method B
- 6. Measuring conditions:

Type:

furnishing fabric

Tensile force: 180 N

Test results

Article: 600167 Proof 2766

	Seam opening [mm]
Warp direction (seamline weft direction)	2,2
Weft direction (seamline warp direction)	4,3

i. A. Detlef von Seyfried

Labor/Laboratory

DELCOTEX Delius Techtex GmbH & Co. KG

Only the information contained in the signed test report is binding.



Appendix

Article:

600167 Proof 2766

Method:

Abrasion resistance DIN EN ISO 12947-2 (2017-03) according to Martindale method (specimen breakdown) in accordance

to DIN EN 14465 (2006-09)





Sample 2 Cycles

Sample 3 **Explosion**

Sample 4 80ab Cycles



COC after 3000 cycles 7-4





Appendix

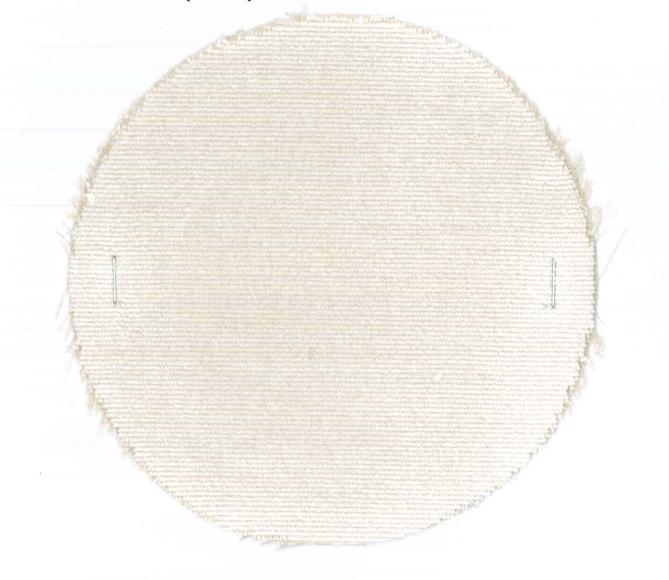
Article:

600167 Proof 2766

Method:

Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method ISO 12945 (2000-11) in accordance to DIN EN

14465 (2006-09)



Number of cycles	Mark*
500	4-5
1.000	4-5
2.000	4
5.000	4



Appendix

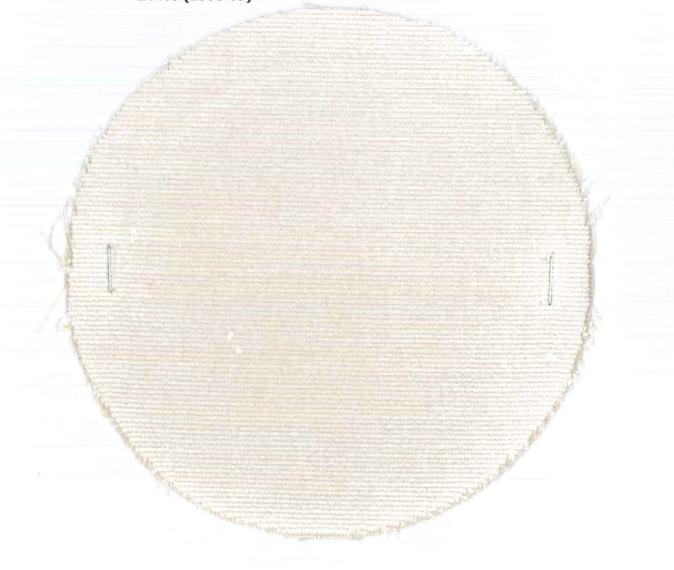
Article:

600167 Proof 2766

Method:

Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method ISO 12945 (2000-11) in accordance to DIN EN

14465 (2006-09)



Number of cycles	Mark*
500	4-5
1.000	4-5
2.000	26
5.000	4



Appendix

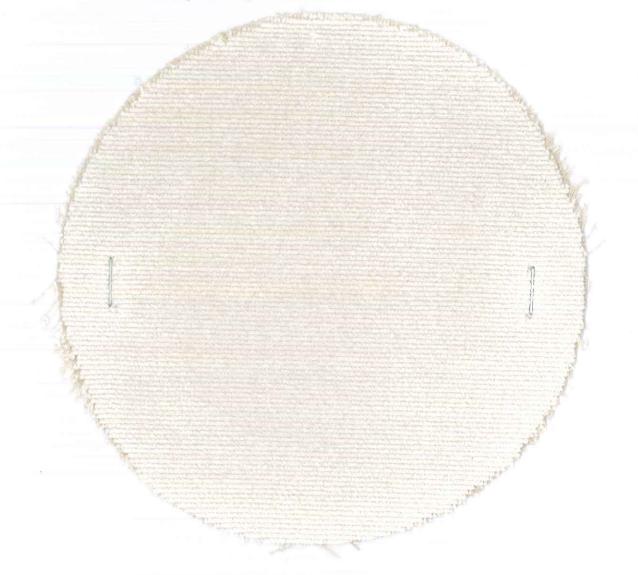
Article:

600167 Proof 2766

Method:

Determination of fabric propensity to surface fuzzing and to pilling - Part 2: Modified Martindale method ISO 12945 (2000-11) in accordance to DIN EN

14465 (2006-09)



Number of cycles	Mark*
500	4-5
1.000	4-5
2.000	4
5.000	U