

Centro Tessile Serico Spa consortille via Castelnuovo, 3 22100 Como, Italia P.IVA - C.F. 02381270137 Capitale sociale 541.666.78 l.v. mailbox©lextilecomo.com www.textilecomo.com

Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Ammiristrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchlo Seri.co +39 031 3312132 Fax +39 031 3312180

## REPORT

Report nr.:

1508270-001

Report date:

10-dic-15

Acceptance code:

1508270

Acceptance date:

02-dic-15

Start test date:

02-dic-15

End test date:

10-dic-15

References:

.....

Customer code: 5485

To:

MARIO SIRTORI SPA via Papa Giovanni XXIII 10 23845 COSTA MASNAGA (LC)

Italia

To the attention of: sig. Sergio Sala Crist

Tel.nr: +39 031 879632 Fax.nr.: +39 031 855397

Article description:

SOLE

Declared composition:

100% Trevira

End use:

Furnishing

Typology:

**Fabric** 

Return:

No requested

Sampling by customer

The results reported herein refer to the tested samples only and do not involve any product approval by Centro Tessile Serico. This document may not be reproduced other than in full, except with the prior written approval of the issuing Laboratory.

TEST M.U. RESULTS

## 15566 UPHOLSTERY FURNITURE: assessment of the ignitability by SMOULDERING CIGARETTE

Method:

UNI EN 1021-1:2014

Instrument:

Small Test Rig for Flammability test

Sample pretreatment:

sample wasn't submitted to any pretreatment

Ignition source applied:

source 0 (SMOULDERING CIGARETTE)

Materials of test assembly:

Upholstery filling: fire retardant polyurethane foam with a density of

30 kg/m³ Inner cover: -

Outer cover: SEE ARTICLE DESCRIPTION

TEST RESULT:

SAMPLE PASSES THE TEST - NON

**IGNITION** 

Note: to assess the ignitability of this sample, the test has been carried out using a fire-retardant polyurethane foam with a density of 30 kg/m³ as filling of the upholstered seating. The test result could be different using another type of filling material.

Annex n.:

1F



Centro Tessile Serico Spa consortille via Castelhuovo, 3 22100 Como, Italia P.IVA - C.F. 02381270137
Capitale sociale 541.666.78 l.v. msilbox@textilecomo.com www.textilecomo.com

Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Amministrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Seri.co +39 031 3312132 Fax +39 031 3312180

Report nr.

1508270-001

15576 UPHOLSTERY FURNITURE: assessment of the ignitability by MATCH FLAME EQUIVALENT

Method:

UNI EN 1021-2:2014

Instrument:

Small Test Rig and burner for Flammability test

Sample pretreatment:

sample wasn't submitted to any pretreatment

Ignition source applied:

source 1 (MATCH FLAME EQUIVALENT)

Materials of test assembly:

Upholstery filling: fire retardant polyurethane foam with a density of

30 kg/m<sup>3</sup>

Inner cover: -

Outer cover: SEE ARTICLE DESCRIPTION

TEST RESULT:

SAMPLE PASSES THE TEST - NON

**IGNITION** 

Note: to assess the ignitability of this sample, the test has been carried out using a fire-retardant polyurethane foam with a density of 30 kg/m³ as filling of the upholstered seating. The test result could be different using another type of filling material.

Annex n.:

2F

# 15066 UPHOLSTERY FURNITURE: assessment of the ignitability by SMOULDERING CIGARETTE

Method:

BS 5852:2006

Instrument:

Test rig

Test executed on:

upholstery composites (Clause 11)

Sample pretreatment:

sample wasn't submitted to any pretreatment

Ignition source applied:

source 0 (SMOULDERING CIGARETTE)

Materials of test assembly:

Upholstery filling: fire retardant polyurethane foam with a density of

30 kg/m³

Inner cover: -

Outer cover: SEE ARTICLE DESCRIPTION

TEST RESULT:

SAMPLE PASSES THE TEST - NON IGNITION

Note: to assess the ignitability of this sample, the test has been carried out using a fire-retardant polyurethane foam with a density of 30 kg/m³ as filling of the upholstered seating. The test result could be different using another type of filling material.

Annex n.:

3F

The test measures only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behavior of the finished item of furniture.

Details of the results can be seen in the annex of this test report.



Centro Tessile Serico Spa consortile via Castelnuovo, 3 22100 Como, Italia P.IVA - C.F. 02381270137 Capitate sociale 541.666,78 j.v. mailbox©textilecomo.com www.textilecomo.com Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Ammiristrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Serl.co +39 031 3312132 Fax +39 031 3312180

Report nr.

1508270-001

15076 UPHOLSTERY FURNITURE: assessment of the ignitability by MATCH FLAME EQUIVALENT

Method:

BS 5852:2006

Instrument:

Test rig

Test executed on:

upholstery composites (Clause 11)

Sample pretreatment:

sample wasn't submitted to any pretreatment

Ignition source applied:

source 1 (MATCH FLAME EQUIVALENT)

Materials of test assembly:

Upholstery filling: fire retardant polyurethane foam with a density of

30 kg/m³ Inner cover: -

Outer cover: SEE ARTICLE DESCRIPTION

TEST RESULT:

SAMPLE PASSES THE TEST - NON

IGNITION

Note: to assess the ignitability of this sample, the test has been carried out using a fire-retardant polyurethane foam with a density of 30 kg/m³ as filling of the upholstered seating. The test result could be different using another type of filling material.

Annex n.:

4F

The test measures only the ignitability of a combination of materials used in upholstered seating and not the ignitability of a particular finished item of furniture incorporating these materials. They give an indication of, but cannot guarantee, the ignition behaviour of the finished item of furniture.

Details of the results can be seen in the annex of this test report.

**END OF REPORT** 

Page 3\3



Centro Tessile Serico Spa consortile via Castelnuovo, 3 22100 Como, Italia PLVA - C.F. 02381270137 Capitale sociale 541 666,78 Lv. mailbox@textilecomo.com www.textilecomo.com Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Amministrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Ser.co +39 031 3312132 Fax +39 031 3312180

Annex n. 3F to test report n. 1508270-001

## **DETAILS OF TEST RESULTS**

Test executed according to BS 5852:2006 – Clause 11 (composites):

Method of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources.

Ignition source type 0: CIGARETTE

Article description: SOLE

Declared composition: 100% Trevira

Materials of test assembly:

Upholstery filling: fire-retardant polyurethane foam with a density of 30 kg/m<sup>3</sup>

Inner cover: -

Outer cover: see article description

Conditioning of test specimen and ignition source: 23±2°C, 50±5% r.h.

Testing temperature and r.h.: 18 °C, 43% r.h.

Sample pre-treatment: sample wasn't subjected to any pretreatment

Date of test: 09.12.2015

ignition source		1.st cigarette	2.nd cigarette
duration of ignition source (min)		32	31
duration flame (min)		-	<b>3</b>
duration smoke (min)		32	31
(*) extent of damage of horizontal component	length (mm)	64	66
	width (mm)	12	13
	depth (mm)	5	5
(*) extent of damage of vertical component	height (mm)	13	13
	depth (mm)	5	6
TEST RESULT	Ignition/ Non Ignition	NI	NI

<sup>(\*) =</sup> total extent of sample's damage without subtracting the cigarette dimensions

#### **TEST RESULT: SAMPLE PASSES THE TEST - NON IGNITION**

The above test result relate only to the ignitability of the combination of upholstery composites (Clause 11) under the particular conditions of test.

They are not intended as a means of assessing the full potential fire hazard of the materials or products in use.



Centro Tessile Serico Spa consortile via Castelnuovo, 3 22100 Como, Italia P.IVA - C.F. 02381270137 Capitale sociale 541 666,78 i.v. mailbox@textilecomo.com www.textilecomo.com Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Amministrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Serr. co +39 031 3312132 Fax +39 031 3312180

Annex n. 4F to test report n. 1508270-001

#### **DETAILS OF TEST RESULTS**

Test executed according to BS 5852:2006 - Clause 11 (composites):

Method of test for assessment of the ignitability of upholstered seating by smouldering and flaming

ignition sources.

Ignition source type 1: MATCH FLAME EQUIVALENT

Article description: SOLE

Declared composition: 100% Trevira

Materials of test assembly:

Upholstery filling: fire-retardant polyurethane foam with a density of 30 kg/m<sup>3</sup>

Inner cover: -

Outer cover: see article description
Conditioning of test specimen: 23±2°C, 50±5% r.h.
Testing temperature and r.h.: 20 °C e 43% r.h.

Sample pre-treatment: sample wasn't subjected to any pretreatment

Date of test: 09.12.2015

ignition source  duration flames (s)  duration smoke (s)		1.st test	2.nd test	
		2	0	
		9	13	
extent of damage of horizontal component	Length (mm)	18	16	
	Width (mm)	15	16	
	Depth (mm)	7	9	
extent of damage of vertical component	Width (mm)	24	23	
	Depth (mm)	9	11	
TEST RESULT	Ignition/ Non Ignition	NI	NI	

## **TEST RESULT: SAMPLE PASSES THE TEST - NON IGNITION**

The above test result relate only to the ignitability of the combination of upholstery composites (Clause 11) under the particular conditions of test.

They are not intended as a means of assessing the full potential fire hazard of the materials or products in use.



Centro Tessile Serico Spa consortile via Castelnuovo, 3 22100 Como, Italia PIVA - C.F. 02381270137 Capitale sociale 541.666,78 l.v. mailbox@textilecomo.com www.lextilecomo.com Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121=170-171 Segreteria di Direzione e Arministrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Seri. co +39 031 3312132 Fax +39 031 3312180

Annex n. 1F to test report n. 1508270-001

#### **DETAILS OF TEST RESULTS**

Test executed according to UNI EN 1021-1:2014 (EN 1021-1:2014)

**Furniture** 

Assessment of the ignitability of upholstered furniture

Part 1: Ignition source: smouldering cigarette

Article description: SOLE

Declared composition: 100% Trevira

Materials of test assembly:

Upholstery filling: fire-retardant polyurethane foam with a density of 30 kg/m<sup>3</sup>

Inner cover: -

Outer cover: see article description

Conditioning of test specimen:  $23 \pm 2$  °C,  $50 \pm 5$  % r.h.

Testing temperature and r.h.: 18 °C e 43% r.h.

Sample pre-treatment: sample wasn't submitted to any pretreatment

Date of test: 09.12.2015

SMOULDERING CRITERIA:	first cigarette	second cigarette	Third cigarette	Comments
Smouldering criteria:				
Unsafe escalating combustion	NO	NO	-	
Test assembly consumed	NO	NO	-	
Smoulders to extremities	NO	NO	-	
Smoulders through thickness	NO	NO	-	
Smoulders more than 1 h	NO	NO	-	Time elapsed between placing the cigarette and extinguishing 1° cigarette 32 min 2° cigarette 31 min
In final examination, presence of active smouldering	NO	NO	프	
Flaming criteria:				
Evidence of flames	NO	NO	÷.	

YES = criteria observed

NO = criteria not observed

**TEST RESULT: SAMPLE PASSES THE TEST - NON IGNITION** 

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 material in use.

The probability that the observation criteria mentioned represent the true is equal to 95%. The expanded uncertainty is calculated by multiplying the combined standard uncertainty for a coverage factor K = 2, which for a normal distribution leads to a confidence level of approximately 95%.



Centro Tessile Senco Spa consortile via Castelnuovo, 3 22100 Como, Italia P.IVA - C.F. 02381270137 Capitale sociale 541.666,78 i.v. mailbox@textilecomo.com www.textilecomo.com

Servizio Clienti Laboratorio +39 031 3312120 Segreteria Laboratorio +39 031 3312121-170-171 Segreteria di Direzione e Amministrazione +39 031 3312102 Contabilità +39 031 3312154 Area Certificazione +39 031 3312133 Marchio Seri. co +39 031 3312132 Fax +39 031 3312180

Annex n. 2F to test report n. 1508270-001

## **DETAILS OF TEST RESULTS**

Test executed according to UNI EN 1021-2:2014 (EN 1021-2:2014)

Furniture - Assessment of the ignitability of upholstered furniture

Part 2: Ignition source: match flame equivalent

Article description: SOLE

Declared composition: 100% Trevira

Materials of test assembly:

Upholstery filling: fire-retardant polyurethane foam with a density of 30 kg/m<sup>3</sup>

Inner cover: -

Outer cover: see article description

Conditioning of test specimen:  $23 \pm 2$  °C,  $50 \pm 5$  % r.h.

Testing temperature and r.h.: 20 °C e 43% r.h.

Sample pre-treatment: sample wasn't submitted to any pretreatment

Date of test: 09.12.2015

SMOULDERING CRITERIA:		2nd test	3rd test	Comments
Smouldering criteria:				
Unsafe escalating combustion		NO	2	
Test assembly consumed		NO	-	
Smoulders to extremities		NO	-	
Smoulders through thickness		NO	-	
Smoulders more than 120 s		NO	-	Time smouldering: 1st test: 9 s 2nd test: 13 s
In final examination, presence of active smouldering		NO	1	
Flaming criteria:				
Unsafe escalating combustion		NO	-	
Test assembly consumed		NO	-	
Flames to extremities		NO		
Flames through thickness		NO	-	
Flames more than 120 s		NO	=	Time flaming: 1st test: 2 s 2nd test: 0 s

YES = criteria observed

NO = criteria not observed

#### **TEST RESULT: SAMPLE PASSES THE TEST - NON IGNITION**

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 material in use.

The probability that the observation criteria mentioned represent the true is equal to 95%. The expanded uncertainty is calculated by multiplying the combined standard uncertainty for a coverage factor K = 2, which for a normal distribution leads to a confidence level of approximately 95%.