



Report nr.

1508146-001

**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.:

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 behavior of the finished item of furniture.

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



Report nr.

1508146-001

**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.:

5F

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.

END OF REPORT

Supervisor Head

Giovanna Baglio

Technical Head

Prof. Mario Frigerio



Annex n. 4F to test report n. 1508146-001

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: **ROXANA CS 01**

Declared composition: **100% Trevira**

Materials of test assembly:

Upholstery filling: **fire-retardant polyurethane foam with a density of 30 kg/m³**

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.: **20 °C, 58 % r.h.**

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

Date of test: **30.11.2015**

ignition source		1.st cigarette	2.nd cigarette
duration of ignition source (min)		19	20
duration flame (min)		-	-
duration smoke (min)		19	20
(*) extent of damage of horizontal component	length (mm)	71	70
	width (mm)	15	13
	depth (mm)	5	5
(*) extent of damage of vertical component	height (mm)	15	14
	depth (mm)	3	5
TEST RESULT	Ignition/ Non Ignition	NI	NI

(*) = 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.



Annex n. 5F to test report n. 1508146-001

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: **ROXANA CS 01**

Declared composition: **100% Trevira**

Materials of test assembly:

Upholstery filling: **fire-retardant polyurethane foam with a density of 30 kg/m³**

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, 58 % r.h.**

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

Date of test: **30.11.2015**

ignition source		1.st test	2.nd test
duration flames (s)		2	3
duration smoke (s)		19	15
extent of damage of horizontal component	Length (mm)	18	20
	Width (mm)	13	15
	Depth (mm)	4	5
extent of damage of vertical component	Width (mm)	20	24
	Depth (mm)	5	5
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.