

OFFICIAL REPORT ON FIRE RATING CLASSIFICATION

drawn up in conformity with article 5 of the interior Ministry order dated 21 november 2002

N°18300-14/A

VALIDITY 5 YEARS (until April, 02th, 2019)

MATERIAL PRESENTED BY : Sihl AG
Bolligenstrasse 93
3006 BERN
SUISSE

COMMERCIAL BRAND NAME : 3502 EXPO Banner Polyester M1 300, lot 314813

BRIEF DESCRIPTION: 100% polyester fire retardant coated fabric coating on
both sides of fireretardant PVC
Mass per m²: 340g
Thickness : 0,25
Presented colour : White

TYPE OF TESTS : Electric burner test and complementary test

CLASSIFICATION

M1

DURABILITY OF CLASSIFICATION (appendix 22) : **limited to one year (non washable and non dry cleaning material, and for indoor use only).**

Taking into account the criteria resulting from the trials described in the test report appendix N° 18300-14/A .

This official report only attest of characteristics of the sample puting through the tests and do not prejudice characteristics of the similars products.

It do not constitute a certification of products according to the order L. 115-27 of law consummation and law of june 3, 1994.

LE BOUCHET, August, 26th 2014.

Head of the "Fire testing" laboratory.


H BARBIER

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TEST REPORT

drawn up in conformity with the article 5 of the order dated November 21, 2002

VALIDITY 5 YEARS (until April, 02th, 2019)

N° 18300-14/A

and annexes of 4 pages

1 – INTENT OF TEST : put a material to the action of a radiant heat source.

2 –SOURCE AND CHARACTERISTICS OF SAMPLES

2-1 MANUFACTURER : Sihl AG
Bolligenstrasse 93
3006 BERN
SUISSE

2-2 DISTRIBUTOR : Sihl AG
Bolligenstrasse 93
3006 BERN
SUISSE

2-3 COMMERCIAL BRAND NAME : 3502 EXPO Banner Polyester M1 300, lot 314813

2-4 CHARACTERISTICS CERTIFIED BY THE APPLICANT :

100% polyester fire retardant coated fabric coating on both sides of fireretardant PVC

Date of reception of samples : March 21th 2014

Mass per m² : 340g

Thickness: 0,25mm

Presented colour : White

2-5 CHARACTERISTICS VERIFIED BY THE LABORATORY :

Mass per m² (grammes per square meter) : 313 g.

Thickness : 0,25 mm.

Presented colour: White and Black

3 –MODALITIES OF TESTS AND RESULTS

Annexe page 1 : Modalities of tests, conditioning, classification, durability.

Annexe pages 2 and 3: Result of tests, board.

Annexe page 4: Comments of this tests.

**MODALITIES OF TESTS FOR FLEXIBLE MATERIAL WITH A THICKNESS LOWER
OR EQUAL TO 5 MM AND FILTER MEDIAS OF EVERY THICKNESS**

1 - ELECTRIC BURNER TEST (Articles 12 to 25)

The sample (18 cm x 60 cm) taut on a grid is on a support at 30° in comparison to the horizontal plan. An incombustible panel put on the back, at the beginning of the test. The material submit to the calorific heat source and gazes current given by an Hooman burner set, in the vertical axe, at 3 cm under the sample.

After 20 secondes, a flame go to the contact of the material during 5 secondes. Time of the test : 5 minutes. The deciding factors are : time of flaming length destroy from the inferior side

2 - COMPLEMENTARIES TESTS

Article 25 : the materials which show a particular attitude during the principal test would be test to the complementaries tests given here after.

2-1 Drop point test (articles 23 to 45)

The sample (7 cm x 7 cm) is putting on a metallic grid submit to a calorific heat source setted 3 cm above.

During 5 minutes, the radiator is isolated at each inflammation and removed after extinction.

During 5 complementaries minutes, the radiator stay unmoved. The deciding factors are : drops in flame or not inflammation of coton setted under the sample

2-2 Propagation test (articles 46 to 48)

The sample (46 cm x 23 cm) setted vertically, on edge, submit the influence of a gaz burner flame. The propagation speed is mesured between two marks separated of 25 cm. or in the case of non-propagation of Flame, we note the time of persistence of flame, the lengths of propagation and the drops in flame or not.

2-3 Calorific value test (article 54 to 63)

This is the mesure of the quantity of calorific value given by the combustion of a known mass ignited in a bomb calorimeter under oxygen in pressure.

3 - CONDITIONNING OF SAMPLES

The samples showed with normalized dimensions shall be conditionned in a specified room (23°C±2°C and 50% ±5 of relative humidity) until mass constant near 0,1%.

4 - CLASSIFICATION (Articles 64 to 69 and 79 to 87)

They are given after the electric burner tests and sometimes after complementaries tests.

The combustibles materials are classified M1, M2, M3, ou M4.

Only the materials classified M1 should be classified M0.

5 - DURABILITY TEST (Article 10)

The terms of these tests, their interpretation at the process of classification are given in the chapters II and III of the appendice 22 of the order dated 30 june 1983 modified by order dated 28 August 1991.

RESULTS OF ELECTRIC BURNER TESTS

Date of test: April 01th 2014

Sample N°	1	2	3	4
Samples direction	Production	Width	Production	Width
Color of sample	White	White	White	White
Exposed face	One side	The other side	The other side	One side
Weight before test (g)	33,6	33,8	33,7	33,9
Moment of ignition (sec)	*	*	*	*
Time of ignition (sec)	*	*	*	*
Maximale length(cm)	17	15	15	16
Drop in flamme or not	No	No	No	No
Smokes	Little of smoke			
length destroyed (cm)	11	10	9	11
breadth destroyed (cm)	4	5	5	5
Meedle width destroyed (beetween 45 and 60 cm)	*	*	*	*

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Complementary test:

Test of fire propagation (NF P 92-504)

Date of test: April 01th 2014

Résultats: 3502 EXPO Banner Polyester M1 300, lot 314813

SAMPLE N°	1	2	3	4
Samples direction	*	*	*	*
Colors of sample	White	White	White	White
Exposed face	One side	The other side	The other side	One side
Fire propagation (duration)	/	/	/	/
Drop in flamme	no	no	no	no

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4 - OBSERVATIONS RELATING THE ELECTRIC BURNER TESTS

4.1) Electric Burner test

Four samples have been tested.
There is no inflammation more than 5s on each samples.
There is no fall of drop ignited or not ignited.
Material is piercing for each samples

4.2 Test of fire propagation

There is no flame persistence of the material after removal of the burner.
There is no fall of drop ignited.

Le Bouchet, August 26th, 2014

The Laboratory's Manager « Fire tests »

H BARBIER

