

OFFICIAL REPORT ON FIRE RATING CLASSIFICATION

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

N°19228-16/A

VALIDITY 5 YEARS (until October , 25th, 2021)

MATERIAL PRESENTED BY : A BERGER GmbH
Kuhleshütte 84
D-47809 KRELELD
Allemagne

COMMERCIAL BRAND NAME: 3745-6G G-Flag 117 FR

BRIEF DESCRIPTION : Fabric made 100% Polyester fire retardant Cetaflam PDPI
Mass per m² : 110 g/m²
Thickness : 0,31 mm
Presented colour : White

TYPE OF TESTS : Electric burner test (NF P 92503) and complementary test

CLASSIFICATION

M1

DURABILITY OF CLASSIFICATION (appendix 22) : **not limited a priori**

Taking into account the criteria resulting from the trials described in the test report appendix N° 19228-16/A .

This official report only attest of characteristics of the sample puting through the tests and do not prejudge characteristics of the similars products. It do not constitute a certification of products according to the order L. 115-27 of law consumption and law of june 3rd, 1994.

LE BOUCHET, October, 25th 2016.

Head of the "Fire testing"laboratory.


H. BARBIER

TEST REPORT

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

VALIDITY 5 YEARS (until October , 25th, 2021)

N° 19228-16/A

and appendix 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 : A BERGER GmbH
Kuhleshütte 84
D-47809 KRELELD
Allemagne

2-2 DISTRIBUTOR : A BERGER GmbH
Kuhleshütte 84
D-47809 KRELELD
Allemagne

2-3 COMMERCIAL BRAND NAME : 3745-6G G-Flag 117 FR

2-4 CHARACTERISTICS CERTIFIED BY THE APPLICANT :

Fabric made 100% Polyester fire retardant Cetaflam PDPI
Mass per m² : 110 g/m²
Thickness : 0,31 mm
Presented colour : White

2-5 CHARACTERISTICS VERIFIED BY THE LABORATORY :

Date of reception of samples : September, 21th 2016
Mass per m² : 111 g
Thickness : 0,3 mm
Presented colours : White

3 –MODALITIES OF TESTS AND RESULTS

Appendix page 1 : Modalities of tests, conditioning, classification, durability.
Appendix pages 2 and 3 : Result of tests, board.
Appendix page 4 : Comments of this tests.

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Appendix page 1

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 conditioned 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.

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RESULTS OF ELECTRIC BURNER TESTS

Dates of tests : October 12th 2016

Sample N°	1	2	3	4
Samples direction	Lenght	Width	Lenght	Width
Color of sample	White	White	White	White
Exposed face	Front	Back side	Back side	Front
Weight before test (g)	12,2	12,5	12,0	12,0
Moment of ignition (sec)	*	*	*	*
Time of ignition (sec)	*	*	*	*
Maximale length(cm)	20	21	17	19
Drop not in flame	No	No	No	No
Drop in flame	No	No	No	No
Smokes	Little of smoke			
length destroyed (cm)	15	15	11	13
breadth destroyed (cm)	5	6	5	6
Meedle width destroyed (beetween 45 and 60 cm)	*	*	*	*

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Complementary test:

Fire propagation test (NF P 92-504)

This test consist in subjecting the sample (230 x 460 mm) in upright position to the action of a warm source.
That is constituted by a gaz burner applied against the material during several periods of 5 seconds.

We note :

- sample inflammation
- spread flame
- drops ignited or not.

During material test « 3745-6G G-Flag 117 FR », we note:

Date of the tests: October 12th, 2016

Sample N°	1	2	3	4
Samples direction	Lenght	Width	Lenght	Width
Color of samples	White	White	White	White
Exposed face	Front	Back side	Back side	Front
Fire propagation (duration)	*	*	*	*
Fall of ardent drops	non	non	non	non

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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 of material more than 5s
There is no fall of melted material or ardent drop.
There was burnthrough of the material

4.2 Complementary test for fire propagation flame

There is no inflammation of material and no propagation of flame.
There is no ardent drop

Le Bouchet, October 25th, 2016

Head of the "Fire testing"laboratory.


H BARBIER